

450°

## **STIC Biotechnology Systems Branch**

### **RAW SEQUENCE LISTING** **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/551,874  
Source: pg 10  
Date Processed by STIC: 10/12/05

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

**FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:**

**<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)**
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**
- 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):**  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

## Raw Sequence Listing Error Summary

### ERROR DETECTED

### SUGGESTED CORRECTION

SERIAL NUMBER: 10/551,874

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1      Wrapped Nucleics    The number/text at the end of each line "wrapped" down to the next line. This may occur if your file  
     Wrapped Aminos        was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will  
                               prevent "wrapping."
  
- 2      Invalid Line Length    The rules require that a line not exceed 72 characters in length. This includes white spaces.
  
- 3      Misaligned Amino    The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers;  
     Numbering                use space characters, instead.
  
- 4      Non-ASCII            The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please  
                               ensure your subsequent submission is saved in ASCII text.
  
- 5      Variable Length       Sequence(s)          contain n's or Xaa's representing more than one residue. Per Sequence Rules,  
                               each n or Xaa can only represent a single residue. Please present the maximum number of each  
                               residue having variable length and indicate in the <220>-<223> section that some may be missing.
  
- 6      PatentIn 2.0        A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid  
     "bug"                    sequences(s)         . Normally, PatentIn would automatically generate this section from the  
                               previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to  
                               the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for  
                               Artificial or Unknown sequences.
  
- 7      Skipped Sequences    Sequence(s)          missing. If intentional, please insert the following lines for each skipped sequence:  
     (OLD RULES)            (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
                               (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
                               (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
                               This sequence is intentionally skipped  
  
                               Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
  
- 8      Skipped Sequences    Sequence(s) 6691 and others missing. If intentional, please insert the following lines for each skipped sequence.  
     (NEW RULES)            <210> sequence id number  
                               <400> sequence id number  
                               000
  
- 9      Use of n's or Xaa's    Use of n's and/or Xaa's have been detected in the Sequence Listing.  
     (NEW RULES)            Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
                               In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
  
- 10     Invalid <213>        Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or  
     Response                scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or  
                               is Artificial Sequence
  
- 11     Use of <220>        Sequence(s)          missing the <220> "Feature" and associated numeric identifiers and responses:  
                               Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or  
                               "Unknown." Please explain source of genetic material in <220> to <223> section.  
                               (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
  
- 12     PatentIn 2.0        Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file,  
     "bug"                    resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence  
                               listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
  
- 13     Misuse of n/Xaa       "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



PCT

## RAW SEQUENCE LISTING

DATE: 10/17/2005

PATENT APPLICATION: US/10/551,874

TIME: 12:14:30

Input Set : N:\FANTU\10551874.raw.txt

Output Set: N:\CRF4\10172005\J551874.raw

*Use English for a U.S. application*

3 <110> APPLICANT: SIRS-Lab GmbH  
 5 <120> TITLE OF INVENTION: Verfahren zur Erkennung akuter generalisierter entzündlicher Zustände  
 6 (SIRS), Sepsis, sepsisähnlichen Zuständen und systemischen Infektionen  
 8 <130> FILE REFERENCE: SL0505  
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/551,874  
 C--> 11 <141> CURRENT FILING DATE: 2005-09-30  
 13 <160> NUMBER OF SEQ ID NOS: 10540  
 15 <170> SOFTWARE: PatentIn version 3.1

## ERRORED SEQUENCES

260267 <210> SEQ ID NO: 6691  
 260268 <211> LENGTH: 0  
 260269 <212> TYPE: DNA  
 260270 <213> ORGANISM: Homo sapiens  
 260273 <220> FEATURE:  
 260274 <223> OTHER INFORMATION: III.319 (N33921)  
 260276 <400> SEQUENCE: 6691  
 ?  
 262773 <210> SEQ ID NO: 6746  
 262774 <211> LENGTH: 0  
 262775 <212> TYPE: DNA  
 262776 <213> ORGANISM: Homo sapiens  
 262779 <220> FEATURE:  
 262780 <223> OTHER INFORMATION: III.374 (H11838)  
 262782 <400> SEQUENCE: 6746  
 E--> 262782 ?  
 267211 <210> SEQ ID NO: 6841  
 267212 <211> LENGTH: 0  
 267213 <212> TYPE: DNA  
 267214 <213> ORGANISM: Homo sapiens  
 267217 <220> FEATURE:  
 267218 <223> OTHER INFORMATION: III.469 (R42395)  
 267220 <400> SEQUENCE: 6841  
 E--> 267220 ?  
 291614 <210> SEQ ID NO: 7368  
 291615 <211> LENGTH: 0  
 291616 <212> TYPE: DNA  
 291617 <213> ORGANISM: Homo sapiens  
 291620 <220> FEATURE:  
 291621 <223> OTHER INFORMATION: III.996 (H66546)  
 291623 <400> SEQUENCE: 7368

*if this is an intentionally*

*Does Not Comply  
 corrected Diskette Needed  
 skipped  
 sequence, delete this section.*

*same error*

*See item 8 on  
 Error summary  
 sheet for  
 valid format.*

*same*

*same*

## RAW SEQUENCE LISTING

DATE: 10/17/2005

PATENT APPLICATION: US/10/551,874

TIME: 12:14:42

Input Set : N:\FANTU\10551874.raw.txt

Output Set: N:\CRF4\10172005\J551874.raw

E--&gt; 291623

291976 <210> SEQ ID NO: 7378  
291977 <211> LENGTH: 0  
291978 <212> TYPE: DNA  
291979 <213> ORGANISM: Homo sapiens  
291982 <220> FEATURE:  
291983 <223> OTHER INFORMATION: III.1006 (H29399)  
291985 <400> SEQUENCE: 7378

*same*

E--&gt; 291985

303027 <210> SEQ ID NO: 7607  
303028 <211> LENGTH: 0  
303029 <212> TYPE: DNA  
303030 <213> ORGANISM: Homo sapiens  
303033 <220> FEATURE:  
303034 <223> OTHER INFORMATION: III.1235 (H84698)  
303036 <400> SEQUENCE: 7607

*same*

E--&gt; 303036

341018 <210> SEQ ID NO: 8489  
341019 <211> LENGTH: 0  
341020 <212> TYPE: DNA  
341021 <213> ORGANISM: Homo sapiens  
341024 <220> FEATURE:  
341025 <223> OTHER INFORMATION: III.2117 (AA988736)  
341027 <400> SEQUENCE: 8489

*same*

E--&gt; 341027

361133 <210> SEQ ID NO: 9207  
361134 <211> LENGTH: 0  
361135 <212> TYPE: DNA  
361136 <213> ORGANISM: Homo sapiens  
361139 <220> FEATURE:  
361140 <223> OTHER INFORMATION: III.2835 (AA913938)  
361142 <400> SEQUENCE: 9207

*same*

E--&gt; 361142

362182 <210> SEQ ID NO: 9241  
362183 <211> LENGTH: 0  
362184 <212> TYPE: DNA  
362185 <213> ORGANISM: Homo sapiens  
362188 <220> FEATURE:  
362189 <223> OTHER INFORMATION: III.2869 (AI184226)  
362191 <400> SEQUENCE: 9241

*same*

E--&gt; 362191

404231 <210> SEQ ID NO: 10521  
404232 <211> LENGTH: 14392  
404233 <212> TYPE: DNA  
404234 <213> ORGANISM: Homo sapiens  
404237 <220> FEATURE:  
404238 <223> OTHER INFORMATION: III.4149 (NM\_004525)  
404240 <400> SEQUENCE: 10521  
404241 gcagacctaa aggagcgttc gctagcagag gcgctgccgg tgcggtgtgc tacgcgcgcc

*see  
p.7*

60

## RAW SEQUENCE LISTING

DATE: 10/17/2005

PATENT APPLICATION: US/10/551,874

TIME: 12:14:47

Input Set : N:\FANTU\10551874.raw.txt

Output Set: N:\CRF4\10172005\J551874.raw

404243	cacctcccg	ggaaggaacg	gcgaggccgg	ggaccgtcgc	ggagatggat	cgcgggccgg	120
404245	cagcagtggc	gtgcacgtg	ctcctggctc	tcgtcgctg	cctagcgccg	gccagtggcc	180
404247	aagaatgtga	cagtgcgc	tttcgctgtg	gaagtgggca	ttgcatccct	gcagactgga	240
404249	ggtgtgatgg	gaccaaagac	tggtcagatg	acgcggatga	aattggctgc	gctgttgtga	300
404251	cctgccagca	gggctatttc	aagtgccaga	gtgagggaca	atgcatcccc	agctcctggg	360
404253	tgtgtgacca	agatcaagac	tgtgatgatg	gctcagatga	acgtcaagat	tgctcacaaa	420
404255	gtacatgctc	aagtcatcag	ataacatgct	ccaatgggtc	gtgtatccca	agtgaataca	480
404257	ggtgcgacca	cgtcagagac	tgccccgatg	gagctgatga	gaatgactgc	cagtacccaa	540
404259	catgtgagca	gcttacttgt	gacaatgggg	cctgctataa	caccagtcag	aagtgtgatt	600
404261	ggaaagttga	ttgcagggac	tcctcagatg	aaatcaactg	cactgagata	tgcttgca	660
404263	atgagttttc	atgtggcaat	ggagagtgtg	tcctcgtgc	ttatgtctgt	gaccatgaca	720
404265	atgattgcc	agacggcagt	gatgaacatg	cttgcaacta	tcggacctgc	ggtggttacc	780
404267	agttcacttg	ccccagtggc	cgatgcattt	atcaaaactg	ggtttgtgat	ggagaagatg	840
404269	actgtaaaga	taatggagat	gaagatggat	gtgaaagcgg	tcctcatgat	gttcataaat	900
404271	gttccccaa	agaatggctc	tgcccagagt	cgggacgatg	catctccatt	tataaagttt	960
404273	gtgatgggat	tttagattgc	ccaggaagag	aagatgaaaa	caacactagt	accggaaaa	1020
404275	actgtagtat	gactctgtgc	tctgccttga	actgccagta	ccagtgccat	gagacgccgt	1080
404277	atggaggagc	gtgtttttgt	cccccaggtt	atatcatcaa	ccacaatgac	agccgtacct	1140
404279	gtgttgagtt	tgatgattgc	cagatatggg	gaatttgtga	ccagaagtgt	gaaagccgac	1200
404281	ctggccgtca	cctgtgccac	tgtgaagaag	ggtatatctt	ggagcgtgga	cagtattgca	1260
404283	aagctaata	ttcctttggc	gaggcctcca	ttatcttctc	caatggctcg	gatttgtaa	1320
404285	ttggtgat	tcattggaag	agcttccgga	tcctagtggg	gtctcagaat	cgtggagtgg	1380
404287	ccgtgggtgt	ggctttccac	tatcacctgc	aaagagtttt	ttggacagac	accgtgcaaa	1440
404289	ataaggtttt	ttcagttgac	attaatgggt	taaatatcca	agaggttctc	aatgtttctg	1500
404291	ttgaaacccc	agagaacctg	gctgtggact	gggttaataa	taaaatctat	ctagtggaaa	1560
404293	ccaaggtcaa	ccgcatagat	atggtaaatt	tggatggaa	ctatcgggtt	acccttataa	1620
404295	ctgaaaactt	ggggcatcct	agaggaattg	ccgtggaccc	aactgttggt	tatttatttt	1680
404297	tctcagattg	ggagagcctt	tctggggaac	ctaagctgga	aagggcattc	atggatggca	1740
404299	gcaaccgtaa	agacttggtg	aaaacaaagc	tgggatggcc	tgctggggta	actctggata	1800
404301	tgatatcgaa	gcgtgtttac	tgggttgact	ctcggtttga	ttacattgaa	actgtaactt	1860
404303	atgatggaat	tcaaaggaag	actgtagttc	atggaggctc	cctcattcct	catccctttg	1920
404305	gagtaagctt	atttgaaggt	caggtgttct	ttacagattg	gacaaagatg	gccgtgctga	1980
404307	aggcaaacaa	gttcacagag	accagccac	ccaggcttact	ccaggcttcc	ctgaggccct	2040
404309	atggagtgc	tggtttaccat	tcctcagac	agccctatgc	taccaatccg	tgtaaagata	2100
404311	acaatggggg	ctgtgagcag	gtctgtgttc	tcagccacag	aacagataat	gatgggttgg	2160
404313	gtttccgttg	caagtgcaca	ttcggcttcc	aactggatac	agatgagcgc	cactgcattg	2220
404315	ctgttcagaa	tttcctcatt	ttttcatccc	aagttgctat	tcgtgggatc	ccgttcacct	2280
404317	tgtctaccca	ggaagatgtc	atggttccag	tttcggggaa	tccttctttc	tttgtcggga	2340
404319	ttgattttga	cgcacaggac	agcactatct	ttttttcaga	tatgtcaaaa	cacatgattt	2400
404321	ttaagcaaaa	gattgatggc	acaggaagag	aaattctcgc	agctaacagg	gtggaaaatg	2460
404323	ttgaaagttt	ggcttttgat	tggatttcaa	agaatctcta	ttggacagac	tctcattaca	2520
404325	agagtatcag	tgtcatgagg	ctagctgata	aaacgagacg	cacagtagtt	cagtatttaa	2580
404327	ataaccacag	gtcgggtggt	gttcatcctt	ttgccgggta	tctattcttc	actgattggg	2640
404329	tcgctcctgc	taaaattatg	agagcatgga	gtgacggatc	tcacctcttg	cctgtaataa	2700
404331	acactactct	tggatggccc	aatggcttgg	ccatcgattg	ggctgcttca	cgattgtact	2760
404333	gggtagatgc	ctattttgat	aaaattgagc	acagcacctt	tgatggttta	gacagaagaa	2820
404335	gactgggcca	tatagagcag	atgacacatc	cgtttggact	tgccatcttt	ggagagcatt	2880
404337	tattttttac	tgactggaga	ctgggtgcc	ttattcgagt	caggaaagca	gatggtggag	2940
404339	aaatgacagt	tatccgaagt	ggcattgctt	acatactgca	tttgaaatcg	tatgatgtca	3000

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/551,874

DATE: 10/17/2005

TIME: 12:14:47

Input Set : N:\FANTU\10551874.raw.txt

Output Set: N:\CRF4\10172005\J551874.raw

404341	acatccagac	tgggttctaac	gcctgtaatc	aaccacacgca	tcctaacggt	gactgcagcc	3060
404343	acttctgctt	cccgggtgcca	aatttccagc	gagtgtgtgg	gtgcccttat	ggaatgaggc	3120
404345	tggcttccaa	tcaattgaca	tgcgaggggg	acccaaccaa	tgaaccaccc	acggagcagt	3180
404347	gtggcttatt	ttccttcccc	tgtaaaaatg	gcagatgtgt	gccaattac	tatctctgtg	3240
404349	atggagtcga	tgattgtcat	gataacagtg	atgagcaact	atgtggcaca	cttaataata	3300
404351	cctgttcatc	ttcggcgctt	acctgtggcc	atggggagtg	cattcctgca	cactggcgct	3360
404353	gtgacaaacg	caacgactgt	gtggatggca	gtgatgagca	caactgcccc	acccacgcac	3420
404355	ctgcttcctg	ccttgacacc	caatacacct	gtgataatca	ccagtgtatc	tcaaagaact	3480
404357	gggtctgtga	cacagacaat	gattgtgggg	atggatctga	tgaaaagaac	tgcaattcga	3540
404359	cagagacatg	ccaacctagt	cagtttaatt	gccccaatca	tcgatgtatt	gacctatcgt	3600
404361	ttgtctgtga	tgggtgacaag	gattgtgttg	atggatctga	tgaggttggg	tgtgtattaa	3660
404363	actgtactgc	ttctcaattc	aagtgtgcca	gtggggataa	atgtattggc	gtcacaatc	3720
404365	gttgtgatgg	tgtttttgat	tgcagtgaca	actcggatga	agcgggctgt	ccaaccaggc	3780
404367	ctcctgggat	gtgccactca	gatgaatttc	agtgccaa	agatggatc	tgcatccoga	3840
404369	acttctggga	atgtgatggg	catccagact	gcctctatgg	atctgatgag	cacaatgcct	3900
404371	gtgtcccca	gacttgccct	tcactatatt	tccactgtga	caacggaaac	tgcatccaca	3960
404373	gggcatggct	ctgtgatcgg	gacaatgact	gcggggatat	gagtgatgag	aaggactgcc	4020
404375	ctactcagcc	ctttcgctgt	cctagtgggc	aatggcagtg	tcttgcccat	aacatctgtg	4080
404377	tgaatctgag	tgtagtgtgt	gatggcatct	ttgactgcc	caatgggaca	gatgagtc	4140
404379	cactttgcaa	tgggaacagc	tgtcagatt	tcaatgggtg	ttgtactcac	gagtgtgttc	4200
404381	aagagccctt	tggggctaaa	tgcctatgtc	cattgggatt	cttacttgcc	aatgattcta	4260
404383	agacctgtga	agacatagat	gaatgtgata	ttctaggctc	ttgtagccag	cactgttaca	4320
404385	atatgagagg	ttctttccgg	tgtcgtgtg	atacaggcta	catgttagaa	agtgatggga	4380
404387	ggacttgcaa	agttacagca	tctgagagtc	tgtctgtact	tgtggcaagt	cagaacaaaa	4440
404389	ttattgccga	cagtgtcacc	tcccagggtc	acaatatcta	ttcattgggtc	gagaatgggt	4500
404391	cttacattgt	agctgttgat	tttgattcaa	ttagtgggtc	tatcttttgg	tctgatgcaa	4560
404393	ctcagggtaa	aacctggagt	gcgtttcaaa	atggaacgga	cagaagagtg	gtatttgaca	4620
404395	gtagcatcat	cttgactgaa	actattgcaa	tagattgggt	aggtcgta	ctttactgga	4680
404397	cagactatgc	tctggaaaca	attgaagtct	ccaaaattga	tgggagccac	aggactgtgc	4740
404399	tgattagtaa	aaacctaaca	aatccaagag	gactagcatt	agatcccaga	atgaatgagc	4800
404401	atctactggt	ctgggtctgac	tggggccacc	accctcgcat	cgagcgagcc	agcatggacg	4860
404403	gcagcatcgc	cactgtcatt	gtccaggaca	agactctctg	gacctgcggc	ttactatttg	4920
404405	actaccccaa	cagactgctc	tacttcatgg	actcctatct	tgattacatg	gacttttgcg	4980
404407	attataatgg	acaccatcgg	agacagggtga	tagccagtga	tttgattata	cggcaccct	5040
404409	atgccctaac	tctctttgaa	gactctgtgt	actggactga	ccgtgctact	cgtcgggtta	5100
404411	tgcgagccaa	caagtggcat	ggagggaacc	agtcagttgt	aatgtataat	attcaatggc	5160
404413	cccttgggat	tgttgcggtt	catccttcga	aacaaccaa	ttccgtgaat	ccatgtgct	5220
404415	tttcccgctg	cagccatctc	tgcctgcttt	cctcacaggg	gcctcatttt	tactcctgtg	5280
404417	tttgtccttc	aggatggagt	ctgtctcctg	atctcctgaa	ttgcttgaga	gatgatcaac	5340
404419	ctttctta	aactgtaagg	caacatataa	tttttggaa	ctccctta	cctgaggtga	5400
404421	agagcaatga	tgtatgggtc	cccatagcag	ggatacagaa	tggtttagat	gttgaatttg	5460
404423	atgatgctga	gcaatacatc	tattgggttg	aaaatccagg	tgaaattcac	agagtgaaga	5520
404425	cagatggcac	caacaggaca	gtatttgctt	ctatatctat	gggtggggcct	tctatgaacc	5580
404427	tggccttaga	ttggatttca	agaaaccttt	attctaccaa	tcttagaact	cagtcaatcg	5640
404429	aggttttgac	actccacgga	gatatacagat	acagaaaaac	attgattgcc	aatgatggga	5700
404431	cagctcttgg	agttggcttt	ccaattggca	taactgttga	tctgtctcgt	gggaagctgt	5760
404433	actggtcaga	ccaaggaact	gacagtgggg	ttcctgccaa	gacgccagtg	gctaactatg	5820
404435	atggcacatc	tgtgaaaact	ctctttactg	ggaacctcga	acacctggag	tgtgtcactc	5880
404437	ttgacatcga	agagcagaaa	ctctactggg	cagtcactgg	aagaggagtg	attgaaagag	5940

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/551,874

DATE: 10/17/2005

TIME: 12:14:47

Input Set : N:\FANTU\10551874.raw.txt

Output Set: N:\CRF4\10172005\J551874.raw

404439	gaaacgtgga	tggaacagat	cggatgatcc	tggtacacca	gctttccac	ccctggggaa	6000
404441	ttgcagtcca	tgattctttc	ctttattata	ctgatgaaca	gtatgaggtc	attgaaagag	6060
404443	ttgataaggc	cactggggcc	aacaaaatag	tcttgagaga	taatgttcca	aatctgaggg	6120
404445	gtcttcaagt	ttatcacaga	cgcaatgccg	ccgaatcctc	aaatggctgt	agcaacaaca	6180
404447	tgaatgcctg	tcagcagatt	tgctgcctg	taccaggagg	attgttttcc	tgcgctgtg	6240
404449	ccactggatt	taaaactcaat	cctgataatc	ggctcctgctc	tccatataac	tctttcattg	6300
404451	ttgtttcaat	gctgtctgca	atcagaggct	ttagcttgga	attgtcagat	cattcagaaa	6360
404453	ccatgggtgcc	gggtggcaggc	caaggacgaa	acgcactgca	tgtggatgtg	gatgtgtcct	6420
404455	ctggctttat	ttattgggtgt	gatttttagca	gctcagtggc	atctgataat	gcatccgta	6480
404457	gaattaaacc	agatggatct	tctctgatga	acattgtgac	acatggaata	ggagaaaatg	6540
404459	gagtccgggg	tattgcagtg	gattgggtag	caggaaatct	ttatttcacc	aatgcctttg	6600
404461	tttctgaaac	actgatagaa	gttctgcgga	tcaatactac	ttaccgccgt	gttcttctta	6660
404463	aagtcacagt	ggacatgcct	aggcatattg	ttgtagatcc	caagaacaga	tacctcttct	6720
404465	gggctgacta	tgggcagaga	caaagattg	agcgttcttt	ccttgactgt	accaatcgaa	6780
404467	cagtgcctgt	gtcagagggc	attgtcacac	cacggggcct	ggcagtggac	cgaagtgatg	6840
404469	gctacgttta	ttgggttgat	gattctttag	atataattgc	aaggattcgt	atcaatggag	6900
404471	agaactctga	agtgattcgt	tatggcagtc	gttacccaac	tccttatggc	atcactgttt	6960
404473	ttgaaaattc	tatcatatgg	gtagatagga	atgtgaaaaa	gatcttccaa	gccagcaagg	7020
404475	aaccagagaa	cacagagcca	cccacagtga	taagagacaa	tatcaactgg	ctaagagatg	7080
404477	tgaccatctt	tgacaagcaa	gtccagcccc	ggtcaccagc	agaggtcaac	aacaacctt	7140
404479	gcttgaaaaa	caatggtggg	tgctctcatc	tctgctttgc	tctgcctgga	ttgcacaccc	7200
404481	caaatgtga	ctgtgccttt	gggacctgc	aaagtgatgg	caagaattgt	gccatttcaa	7260
404483	cagaaaattt	cctcatcttt	gccttgtcta	attccttgag	aagcttacac	ttggacctg	7320
404485	aaaaccatag	cccacctttc	caaacaataa	atgtggaaag	aactgtcatg	tctctagact	7380
404487	atgacagtgt	aagtgataga	atctacttca	cacaaaattt	agcctctgga	gttggacaga	7440
404489	tttcttatgc	cacctgtct	tcagggatcc	atactccaac	tgctattgct	tcaggatatag	7500
404491	ggactgctga	tggcattgcc	tttgactgga	ttactagaag	aatttattac	agtgactacc	7560
404493	tcaaccagat	gattaattcc	atggctgaag	atgggtctaa	ccgcactgtg	atagcccgcg	7620
404495	ttccaaaacc	aagagcaatt	gtgttagatc	cctgccaaag	gtacctgtac	tgggctgact	7680
404497	gggatacaca	tgccaaaatc	gagagagcca	cattgggagg	aaacttccgg	gtaccttgg	7740
404499	tgaacagcag	tctgggtcatg	cccagtgggc	tgactctgga	ctatgaagag	gaccttctct	7800
404501	actgggtgga	tgctagtctg	cagaggattg	aacgcagcac	tctgacgggc	gtggatcgtg	7860
404503	aagtcattgt	caatgcagcc	gttcatgctt	ttggcttgac	tctctatggc	cagtatattt	7920
404505	actggactga	cttgtacaca	caaagaattt	accgagctaa	caaatatgac	gggtcaggtc	7980
404507	agattgcaat	gaccacaaat	ttgctctccc	agcccagggg	aatcaacact	gttgtgaaga	8040
404509	accagaaaca	acagtgtaac	aatccttgtg	aacagtttaa	tgggggctgc	agccatatct	8100
404511	gtgcaccagg	tccaaatggg	gccagtgcc	agtgtccaca	tgagggaac	tggattttgg	8160
404513	ccaacaacag	gaagcactgc	attgtggaca	atgggtgaacg	atgtggtgca	tcttcttca	8220
404515	cctgctccaa	tgggcgctgc	atctcggaag	agtggaaagt	tgataatgac	aacgactgtg	8280
404517	gggatggcag	tgatgagatg	gaaagtgtct	gtgcacttca	cacctgctca	ccgacagcct	8340
404519	tcacctgtgc	caatgggcga	tgtgtccaat	actcttaccg	ctgtgattac	tacaatgact	8400
404521	gtggtgatgg	cagtgatgag	gcaggggtgcc	tgttcaggga	ctgcaatgcc	accacggagt	8460
404523	ttatgtgcaa	taacagaagg	tgcatacctc	gtgagtttat	ctgcaatggg	gtagacaact	8520
404525	gccatgataa	taacacttca	gatgagaaaa	attgccctga	tcgcacttgc	cagtctggat	8580
404527	acacaaaatg	tcataattca	aatatttgta	ttctctgcgt	ttatttgtgt	gacggagaca	8640
404529	atgactgtgg	agataacagt	gatgaaaacc	ctacttattg	caccactcac	acatgcagca	8700
404531	gcagtgaagt	ccaatgcgca	tctgggcgct	gtattcttca	acattgggat	tgtgatcaag	8760
404533	aaacagattg	ttttgatgcc	tctgatgaac	ctgectcttg	tggtcactct	gagcgaacat	8820
404535	gcctagctga	tgagttcaag	tgtgatgggt	ggaggtgcat	cccaagcgaa	tggatctgtg	8880

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/551,874

DATE: 10/17/2005

TIME: 12:14:47

Input Set : N:\FANTU\10551874.raw.txt

Output Set: N:\CRF4\10172005\J551874.raw

404537	acggtgataa	tgactgtggg	gatatgagtg	acgaggataa	aaggcaccag	tgtcagaatc	8940
404539	aaaactgctc	ggattccgag	tttctctgtg	taaatgacag	acctccggac	aggaggtgca	9000
404541	ttccccagtc	ttgggtctgt	gatggcgatg	tggattgtac	tgacggctac	gatgagaatc	9060
404543	agaattgcac	caggagaact	tgctctgaaa	atgaattcac	ctgtgggttac	ggactgtgta	9120
404545	tcccaaagat	attcaggtgt	gaccggcaca	atgactgtgg	tgactatagc	gacgagaggg	9180
404547	gctgcttata	ccagacttgc	caacagaatc	agtttacctg	tcagaacggg	cgctgcatta	9240
404549	gtaaaacctt	cgtctgtgat	gaggataatg	actgtggaga	cggatctgat	gagctgatgc	9300
404551	acctgtgcca	caccccagaa	cccacgtgtc	cacctcacga	gttcaagtgt	gacaatgggc	9360
404553	gctgcatcga	gatgatgaaa	ctctgcaacc	acctagatga	ctgtttggac	aacagcgatg	9420
404555	agaaaaggctg	tggcattaat	gaatgccatg	accttccaat	cagtggtctgc	gatcacaact	9480
404557	gcacagacac	cttaaccagt	ttctattgtt	cctgtcgtcc	tggttacaag	ctcatgtctg	9540
404559	acaagcggac	ttgtgttgat	attgatgaat	gcacagagat	gccttttgtc	tgtagccaga	9600
404561	agtgtgagaa	tgtaataggc	tctacatct	gtaagtgtgc	cccaggctac	ctccgagaac	9660
404563	cagatggaaa	gacctgccgg	caaaacagta	acatcgaacc	ctatctcatt	tttagcaacc	9720
404565	gttactattt	gagaaaattt	actatagatg	gctattttta	ctccctcatc	ttggaaggac	9780
404567	tggacaatgt	tgtggcatta	tgtttgacc	gagttagaaa	gagattgtat	tggattgata	9840
404569	cacagaggca	agtcattgag	agaatgtttc	tgaataagac	aaacaaggag	acaatcataa	9900
404571	accacagact	accagctgca	gaaagtctgg	ctgtagactg	ggtttccaga	aagctctact	9960
404573	ggttggatgc	ccgcctggat	ggcctctttg	tctctgacct	caatgggtgga	caccgccgca	10020
404575	tgctggccca	gcactgtgtg	gatgccaaaca	acaccttctg	ctttgataat	cccagaggac	10080
404577	ttgcccttca	ccctcaatat	gggtacctct	actgggcaga	ctgggggtcac	cgcgcataca	10140
404579	ttgggagagt	aggcatggat	ggaaccaaca	agtctgtgat	aatctccacc	aagttagagt	10200
404581	ggcctaattg	catcaccatt	gattacacca	atgatctact	ctactgggca	gatgccacc	10260
404583	tgggttacat	agagtactct	gatttgagg	gccaccatcg	acacacggtg	tatgatgggg	10320
404585	cactgcctca	ccctttcgct	attaccattt	ttgaagacac	tattttattg	acagattgga	10380
404587	atacaaggac	agtggaaaaag	gaaacaaat	atgatggatc	aaatagacag	acactggtga	10440
404589	acacaacaca	cagaccattt	gacatccatg	tgtaccatcc	atataggcag	cccattgtga	10500
404591	gcaatccctg	tggtaaccaac	aatggtggct	gttctcatct	ctgcctcatc	aagccaggag	10560
404593	gaaaagggtt	cacttgcgag	tgtccagatg	acttccgcac	ccttcaactg	agtggcagca	10620
404595	cctactgcac	gcccattgtc	tccagcaccc	agttcctgtg	cgctaacaat	gaaaagtga	10680
404597	ttcctattctg	gtggaaatgt	gtggacaga	aagactgctc	agatggctct	gatgaactgg	10740
404599	ccctttgccc	gcagcgcttc	tgccgactgg	gacagtcca	gtgcagtgc	ggcaactgca	10800
404601	ccagcccga	gactttatgc	aatgctcacc	aaaattgccc	tgatgggtct	gatgaagacc	10860
404603	gtcttctttg	tgagaatcac	cactgtgact	ccaatgaatg	gcagtgcgcc	aacaaaagctt	10920
404605	gcatcccaga	atcctggcag	tgtgacacat	ttaacgactg	tgaggataac	tcagatgaag	10980
404607	acagttccca	ctgtgccagc	aggacctgcc	ggccgggcca	gtttcggtgt	gctaattggcc	11040
404609	gctgcatccc	gcaggcctgg	aagtgtgatg	tggataatga	ttgtggagac	cactcggatg	11100
404611	agcccattga	agaatgcacg	agctctgccc	atctctgtga	caacttcaca	gaattcagct	11160
404613	gcaaaacaaa	ttaccgctgc	atcccaaagt	gggcccgtgtg	caatgggtgta	gatgactgca	11220
404615	gggacaacag	tgatgagcaa	ggctgtgagg	agaggacatg	ccatcctgtg	ggggatttcc	11280
404617	gctgtaaaaa	tcaccactgc	atccctcttc	gttggcagtg	tgatgggcaa	aatgactgtg	11340
404619	gagataactc	agatgaggaa	aactgtgctc	cccgggagtg	cacagagagc	gagtttcgat	11400
404621	gtgtcaatca	gcagtgcatt	ccctcgcgat	ggatctgtga	ccattacaac	gactgtgggg	11460
404623	acaactcaga	tgaacgggac	tgtgagatga	ggacctgcca	tctgaatat	tttcagtgtg	11520
404625	caagtggaca	ttgtgtacac	agtgaactga	aatgcgatgg	atccgctgac	tgtttggatg	11580
404627	cgtctgatga	agctgattgt	cccacacgct	ttcctgatgg	tgcatactgc	caggctacta	11640
404629	tgttcgaatg	caaaaacat	gtttgtatcc	cgccatattg	gaaatgtgat	ggcgatgatg	11700
404631	actgtggcga	tggttcagat	gaagaacttc	acctgtgctt	ggatgttccc	tgtaatcac	11760
404633	caaaccgttt	ccggtgtgac	aacaatcgct	gcatttatag	tcatgagggtg	tgcaatgggtg	11820



## RAW SEQUENCE LISTING

DATE: 10/17/2005

PATENT APPLICATION: US/10/551,874

TIME: 12:14:47

Input Set : N:\FANTU\10551874.raw.txt

Output Set: N:\CRF4\10172005\J551874.raw

```

404635 tggatgactg tggagatgga actgatgaga cagaggagca ctgtagaaaa cgcaccccta 11880
404637 aaccttgtac agaatatgaa tataagtgtg gcaatgggca ttgcattcca catgacaatg 11940
404639 tgtgtgatga tggcgatgac tgtggtgact ggtccgatga actgggttgc aataaaggaa 12000
404641 aagaaagaac atgtgctgaa aatatatgcg agcaaaattg taccacaatta aatgaaggag 12060
404643 gatttatctg ctctgtgaca gctgggttcg aaaccaatgt ttttgacaga acctcctgtc 12120
404645 tagatatcaa tgaatgtgaa caatttggga cttgtcccca gcaactgcaga aataccaaag 12180
404647 gaagttatga gtgtgtctgt gctgatggct tcacgtctat gactgaccgc cctggaaaac 12240
404649 gatgtgcagc tgagggtagc tctcctttgt tgctactgcc tgacaatgtc cgaattcgaa 12300
404651 aatataatct ctcatctgag aggttctcag agtatcttca agatgaggaa tatatccaag 12360
404653 ctgttgatta tgattgggat cccaaggaca taggcctcag tgttgtgtat tacactgtgc 12420
404655 gaggggaggg ctctaggttt ggtgctatca aacgtgccta catcccaac tttgaatccg 12480
404657 gccgcaataa tcttgtgcag gaagttgacc tgaaactgaa atacgtaatg cagccagatg 12540
404659 gaatagcagt ggactgggtt ggaaggcata tttactggtc agatgtcaag aataaacgca 12600
404661 ttgaggtggc taaacttgat ggaaggatca gaaagtggct gatttccact gacctggacc 12660
404663 aaccagctgc tattgtctgt aatcccaaac tagggcttat gttctggact gactggggaa 12720
404665 aggaacctaa aatcgagtct gcctggatga atggagagga ccgcaacatc ctggttttcg 12780
404667 aggaccttgg ttggccaact ggcccttcta tcgattatgt gaacaatgac cgaatctact 12840
404669 ggagtgactt caaggaggac gttattgaaa ccataaaata tgatgggact gataggagag 12900
404671 tcattgcaaa ggaagcaatg aacccttaca gcctggacat ctttgaagac cagttatact 12960
404673 ggatatctaa ggaaaaggga gaagtatgga aacaaaataa atttgggcaa ggaaagaaag 13020
404675 agaaaacgct ggtagtgaac ccttggtcct caagattcag aatctttcat caactcagat 13080
404677 acaataagtc agtgcccaac ctttgcaaac agatctgcag ccacctctgc cttctgagac 13140
404679 ctggaggata cagctgtgcc tgtccccaag gctccagctt tatagagggg agcaccactg 13200
404681 agtgtgatgc agccatcgaa ctgcctatca acctgcccc cccatgcagg tgcattgcag 13260
404683 gaggaaattg ctattttgat gagactgacc tccccaatg caagtgtcct agcggctaca 13320
404685 ccggaaaata ttgtgaaatg gcgttttcaa aaggcatctc tccaggaaca accgcagtag 13380
404687 ctgtgctgtt gacaatcctc ttgatcgtcg taattggagc tctggcaatt gcaggattct 13440
404689 tccactatag aaggaccggc tcccttttgc ctgctctgcc caagctgcca agcttaagca 13500
404691 gtctcgtcaa gccctctgaa aatgggaatg gggtagacct cagatcaggg gcagatctta 13560
404693 acatggatat tggagtgtct ggttttggac ctgagactgc tattgacagg tcaatggcaa 13620
404695 tgagtgaaga ctttgtcatg gaaatgggga agcagcccat aatatttgaa aaccaaatgt 13680
404697 actcagccag agacagtgt gtcaaagtgg ttcagccaat ccaggtgact gtatctgaaa 13740
404699 atgtggataa taagaattat ggaagtccta taaaccttc tgagatagtt ccagagacaa 13800
404701 acccaacttc accagctgct gatggaactc aggtgacaaa atggaatctc ttcaaacgaa 13860
404703 aatctaaaca aactaccaac tttgaaaatc caatctatgc acagatggag aacgagcaaa 13920
404705 aggaaagtgt tgctgcgaca ccacctccat caccttcgct ccctgctaag cctaagcctc 13980
404707 cttcgagaag agacccaact ccaacctatt ctgcaacaga agacactttt aaagacaccg 14040
404709 caaatcttgt taaagaagac tctgaagtat agctatacca gctatttagg gaataattag 14100
404711 aaacacactt ttgcacatat attttttaca aacagatgaa aaaagttaac attcagtact 14160
404713 ttatgaaaaa aatatatatt tccctgtttg cctataggtg gaggtatcct gtgtgtcttt 14220
404715 ttttacttat gccgtctcat attttttaca ataattatca caatgtacta tatgtatata 14280
404717 tttgcactga agttgtctga aggttaatact ataaatatat tgtatatttg taaattttgg 14340
E--> 404719 aaagattatc ctgttactga atttgctaataa aaagatgtct gctgaaaaaa aa 14392 ← insert
404722 <210> SEQ ID NO: 10522
404723 <211> LENGTH: 14896
404724 <212> TYPE: DNA
404725 <213> ORGANISM: Homo sapiens
404728 <220> FEATURE:
404729 <223> OTHER INFORMATION: III.4150 (NM_002332)

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/551,874

DATE: 10/17/2005

TIME: 12:14:47

Input Set : N:\FANTU\10551874.raw.txt

Output Set: N:\CRF4\10172005\J551874.raw

```

404731 <400> SEQUENCE: 10522
404732 cagcgggtgcg agctccaggc ccatgcactg aggaggcgga aacaagggga gccccagag 60
404734 ctccatcaag cccctccaa aggtccct acccggcca cgcacccac cccctccc 120
404736 cgctcctcc caattgtgca tttttgcagc cggaggcggc tccgagatgg ggctgtgagc 180
404738 ttgccccggg gagggggaaa gagcagcgag gagtgaagcg ggggggtggg gtgaagggtt 240
404740 tggatttcgg ggcagggggc gcaccccggt cagcaggccc tccccagggt gctcggaact 300
404742 ctacctcttc acccacgccc ctggtgcgct ttgccgaagg aaagaataag aacagagaag 360
404744 gagggagggg aaaggaggaa aagggggacc cccaactgg ggggggtgaa ggagagaagt 420
404746 agcaggacca gaggggaagg ggctgctgct tgcatcagcc cacaccatgc tgaccccgcc 480
404748 gttgctcctg ctgctgcccc tgctctcagc tctggtcgcg gcggctatcg acgcccctaa 540
404750 gacttgacgc ccaagcagt ttgcctgcag agatcaaata acctgtatct caaagggtcg 600
404752 gcggtgcgac ggtgagaggg actgcccaga cggatctgac gagggccctg agatttgtcc 660
404754 acagagtaag gccacgcgat gccagccaaa cgagcataac tgctgggta ctgagctgtg 720
404756 tgttcccatg tcccgcctct gcaatgggtt ccaggactgc atggacggct cagatgaggg 780
404758 gcccactgc cgagagctcc aaggcaactg ctctcgctg ggctgccagc accatttgtt 840
404760 cccacactc gatgggcccc cctgctactg caacagcagc ttccagcttc aggcagatgg 900
404762 caagacctgc aaagattttg atgagtgtct agtgtacggc acctgcagcc agctatgcac 960
404764 caacacagac ggctccttca tatgtggctg tgttgaagga tacctcctgc agccggataa 1020
404766 ccgctcctgc aaggccaaga acgagccagt agaccggccc cctgtgctgt tgatagccaa 1080
404768 ctcccagaac atcttgcca cgtacctgag tggggcccag gtgtctacca tcacacctac 1140
404770 gagcacgcgg cagaccacag ccatggactt cagctatgcc aacgagaccg tatgctgggt 1200
404772 gcatgttggg gacagtgtct ctacagcga gctcaagtgt gcccgcatgc ctggcctaaa 1260
404774 gggcttcgtg gatgagcaca ccataacat ctccctcagt ctgcaccacg tggaacagat 1320
404776 ggccatcgac tggctgacag gcaacttcta ctttgtggat gacatcgatg ataggatctt 1380
404778 tgtctgcaac agaaatgggg acacatgtgt cacattgcta gacctggaac tctacaaccc 1440
404780 caagggcatt gccctggacc ctgccatggg gaagggtgtt ttactgact atgggcagat 1500
404782 cccaaagggtg gaacgctgtg acatggatgg gcagaaccgc accaagctcg tcgacagcaa 1560
404784 gatttgtgtt cctcatggca tcacgctgga cctggtcagc cgcttgtct actgggcaga 1620
404786 tgctatctg gactatattg aagtgggtga ctatgagggc aagggccgccc agaccatcat 1680
404788 ccagggcacg ctgattgagc acctgtacgg cctgactgtg tttgagaatt atctctatgc 1740
404790 caccaactcg gacaatgcca atgcccagca gaagacgagt gtgatccgtg tgaaccgctt 1800
404792 taacagcacc gagtaccagg ttgtcacccg ggtggacaag ggtggtgccc tccacatcta 1860
404794 ccaccagagg cgtcagcccc gctgagggag cctggcctgt gaaaacgacc agtatgggaa 1920
404796 gccgggtggc tgctctgaca tctgcctgct ggccaacagc cacaaggcgc ggacctggcg 1980
404798 ctgccgttcc ggcttcagcc tgggcagtga cgggaagtca tgcaagaagc cggagcatga 2040
404800 gctgttcctc gtgtatggca agggccggcc aggcacatc cggggcatgg atatgggggc 2100
404802 caagggtccc gatgagcaca tgatccccat tgaaaacctc atgaaccccc gagccctgga 2160
404804 ctccacgct gagaccggt tcatctactt tgccgacacc accagctacc tcattggccg 2220
404806 ccagaagatt gatggcactg agcgggagac catcctgaag gacggcatcc acaatgtgga 2280
404808 ggggtgtggc gtggactgga tgggagacaa tctgtactgg acggacgatg ggcccaaaaa 2340
404810 gacaatcagc gtggccaggc tggagaaagc tgctcagacc cgcaagactt taatcgaggg 2400
404812 caaatgaca cccccagggt ctatttgtgt ggatccactc aatgggtgga tgtactggac 2460
404814 agactgggag gaggacccca aggacagtcg gcgtggggcg ctggagaggg cgtggatgga 2520
404816 tggctcacac cgagacatct ttgtcacctc caagacagtg ctttggccca atgggctaag 2580
404818 cctggacatc ccggtgggc gcctctactg ggtggatgcc ttctacgacc gcatcgagac 2640
404820 gatactgtc aatggcacag accggaagat tgtgtatgaa ggtcctgagc tgaaccacgc 2700
404822 ctttggcctg tgtcaccatg gcaactacct cttctggact gagtatcgga gtggcagtgt 2760
404824 ctaccgcttg gaacggggtg taggagggcg acccccact gtgacccttc tgcgcagtga 2820
404826 gcggccccc atctttgaga tccgaatgta tgatgcccag cagcagcaag ttggcaccaa 2880

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/551,874

DATE: 10/17/2005

TIME: 12:14:47

Input Set : N:\FANTU\10551874.raw.txt

Output Set : N:\CRF4\10172005\J551874.raw

404828	caa	atg	cgc	gg	gtgaacaatg	g	cg	gct	gcag	cagcctgtgc	ttggccaccc	ctgggagccg	2940	
404830	ccag	tgc	gc	gcc	tgtgctgagg	a	ccag	gtgtt	ggacgcagac	ggcgtcactt	gcttggcgaa	3000		
404832	ccc	atc	ct	tac	gtgcctccac	c	ccag	tgc	cca	ggcagcgag	tttgctgtg	ccaacagccg	3060	
404834	ctgc	atccag	g	agc	gcgtgga	a	gtgtg	acgg	agacaacgat	tgcctggaca	acagtgatga	3120		
404836	ggcccc	cagcc	c	ctctg	ccatc	a	gcacac	cctg	cccctcggac	cgattcaagt	g	cgagaacaa	3180	
404838	ccggtg	catc	c	cca	aaccgct	g	gctctg	cga	cggggacaat	gactgtggga	acagtgaaga	3240		
404840	tgagtcca	aat	g	cc	acttgtt	c	agcccgcac	ctgccccccc	aaccagttct	cctgtgccag	3300			
404842	tggccg	ctgc	a	tcccc	atct	c	ctggacgtg	tgatctggat	gacgactgtg	gggaccgctc	3360			
404844	tgatgag	tct	g	cttc	gtgtg	c	ctatcccac	ctgcttcccc	ctgactcagt	ttacctgcaa	3420			
404846	caatggc	aga	t	gtat	caaca	t	caactggag	atg	cgcacaat	gacaatgact	gtggggacaa	3480		
404848	cagtgc	agaa	g	ccgg	ctgca	g	ccactcctg	ttctagcacc	cagttcaagt	gcaacagcgg	3540			
404850	gcgttgc	atc	c	ccgag	cact	g	ggacctgcga	tggggacaat	gactgcggag	actacagtga	3600			
404852	tgagac	acac	g	cca	aactgca	c	caaccaggc	cacgagggccc	cctggtggct	gccacactga	3660			
404854	tgagttcc	ag	t	gcc	ggctgg	a	atggactatg	catccccctg	cggtggcgct	g	cgatgggga	3720		
404856	cactgact	gc	a	tgg	actcca	g	cgatgagaa	gagctgtgag	ggagtgaccc	acgtctgcga	3780			
404858	tcccag	tgtc	a	ag	tttggct	g	caaggactc	agctcggtgc	atcagcaaa	g	ctgggtgtg	3840		
404860	tgatggc	gac	a	atg	actgtg	a	aggataaactc	ggacgaggag	aactgcgagt	ccctggcctg	3900			
404862	caggcc	accc	c	tgc	accctt	g	tgc	caacaa	cacctcagtc	tgcttgcctc	ctgacaagct	3960		
404864	gtgtgat	ggc	a	acg	acgact	g	tg	ggcgacgg	ctcagatgag	ggcgagctct	g	cgaccagt	4020	
404866	ctctctg	aat	a	acg	gtggct	g	gcagccacaa	ctgctcagtg	gcacctggcg	aaggcattgt	4080			
404868	gtgttc	cctgc	c	ctctg	gggca	t	ggagctggg	gccccgacaac	cacacctgcc	agatccagag	4140			
404870	ctactgt	gcc	a	ag	catctca	a	atgcagcca	aaagtgcgac	cagaacaagt	tcagcgtgaa	4200			
404872	gtgctc	cctgc	t	acg	agggct	g	gggtcctgga	acctgacggc	gagagctgcc	gcagcctgga	4260			
404874	cccctt	caag	c	cg	ttcatca	t	ttttctccaa	ccgccatgaa	atccggcgca	tcgatcttca	4320			
404876	caaagg	agac	t	ac	agcgtcc	t	tggtgcccgg	cctgcgcgaac	accatcgccc	tggacttcca	4380			
404878	cctcag	ccag	a	gc	gccctct	c	actggaccga	cg	tggtggag	gacaagatct	accgcgggaa	4440		
404880	gctgct	ggac	a	acg	gagccc	t	tgactagttt	cgaggtgggtg	attcagtatg	gcctggccac	4500			
404882	acccgag	ggg	c	tg	gctgtag	a	ctggattgc	aggcaacatc	tactgggtgg	agagtaacct	4560			
404884	ggatcag	atc	g	aggt	ggcca	a	agctggatgg	gacctccgg	accacctgc	tggccgggtga	4620			
404886	cattgag	cac	c	ca	agggcaa	t	cg	cactgga	tccccgggat	gggatcctgt	tttggacaga	4680		
404888	ctggg	atgcc	a	gc	ctgcccc	g	ccattgaggc	agcctccatg	agtggggctg	ggcgccgcac	4740			
404890	cgtgc	accgg	g	gag	accggct	c	ctgggggctg	gccccacggg	ctcaccgtgg	actacctgga	4800			
404892	gaagc	gcatc	c	ttt	ggattg	c	acgcaggctc	agatgccatt	tactacgccc	gttacgacgg	4860			
404894	ctctg	gccac	a	tgg	agggtgc	t	tcggggaca	cgagttcctg	tcgcacccgt	ttgca	gtgac	4920		
404896	gctgtac	ggg	g	agg	gtct	a	ctggactga	ctggcgaa	aacacactgg	ctaaggccaa	4980			
404898	caagtgg	acc	g	gcc	acaatg	t	caccgtggt	acagaggacc	aacacccagc	cctttgacct	5040			
404900	gcaggtg	tac	c	cccc	ctccc	g	gccagcccat	ggctcccaat	ccctgtgagg	ccaatggggg	5100			
404902	ccagg	gcccc	c	tgt	ctccacc	t	gtgtctcat	caactacaac	cggaccgtgt	cctgcgcctg	5160			
404904	cccc	acctc	a	tga	agctcc	a	acaaggacaa	caccacctgc	tatgagttta	agaagttcct	5220			
404906	gctgtac	gca	c	gtc	agatgg	a	agatccgagg	tgtggacctg	gatgctccct	actacaacta	5280			
404908	catcat	ctcc	t	tc	acggtgc	c	cgacatcga	caacgtcaca	gtgctagact	acgatgcccg	5340			
404910	cgagc	agcgt	t	gt	tactgg	t	ctgacgtgcg	gacacagggc	atcaagcggg	ccttcatcaa	5400			
404912	cggc	acaggg	c	gt	ggagacag	t	cg	tctctgc	agacttgcca	aatgcccacg	ggctggctgt	5460		
404914	ggact	gggtc	t	ccc	gaaaacc	t	gttctggac	aagctatgac	accaataaga	agcagatcaa	5520			
404916	tgtgg	ccccg	g	ctg	gatggct	c	cttcaagaa	cgcagtggtg	cagggcctgg	agcagcccca	5580			
404918	tggc	cttgtc	t	gt	ccacctc	t	tg	cg	tgggaa	gctctactgg	accgatgg	t	acaacatcag	5640
404920	catgg	ccaac	a	t	ggatggca	g	caatcgcac	cctgctcttc	agtggccaga	agggccccgt	5700			
404922	ggg	cctggct	t	a	tgacttcc	c	tg	aaagcaa	actctactgg	atcagctccg	ggaaccatac	5760		
404924	catca	accgc	t	g	caacctgg	a	tgggagtg	gctggaggtc	atcgatgcca	tgcggagcca	5820			

## RAW SEQUENCE LISTING

DATE: 10/17/2005

PATENT APPLICATION: US/10/551,874

TIME: 12:14:47

Input Set : N:\FANTU\10551874.raw.txt

Output Set: N:\CRF4\10172005\J551874.raw

404926	gctgggcaag	gccaccgccc	tggccatcat	gggggacaag	ctgtgggtggg	ctgatcaggt	5880
404928	gtcggaaaag	atgggcacat	gcagcaaggc	tgacggctcg	ggctccgtgg	tccttcggaa	5940
404930	cagcacacc	ctggtgatgc	acatgaagg	ctatgacgag	agcatccagc	tggaccataa	6000
404932	gggcaccaac	ccctgcagtg	tcaacaacgg	tgactgctcc	cagctctgcc	tgcccacgtc	6060
404934	agagacgacc	cgctcctgca	tgtgcacagc	cggctatagc	ctccggagtg	gccagcaggc	6120
404936	ctgcgagggc	gtaggttcct	ttctcctgta	ctctgtgcat	gagggaatca	ggggaattcc	6180
404938	cctggatccc	aatgacaagt	cagatgccct	ggtcccagtg	tccgggacct	cgctggctgt	6240
404940	cggcatcgac	ttccacgctg	aaaatgacac	catctactgg	gtggacatgg	gcctgagcac	6300
404942	gatcagccgg	gccaagcggg	accagacgtg	gcgtgaagac	gtggtgacca	atggcattgg	6360
404944	ccgtgtggag	ggcattgcag	tggactggat	cgcaggcaac	atctactgga	cagaccaagg	6420
404946	ctttgatgtc	atcgaggctg	cccggctcaa	tggctccttc	cgctacgtgg	tgatctccca	6480
404948	gggtctagac	aagccccggg	ccatcacctg	ccaccgggag	aaaggggtact	tgttctggac	6540
404950	tgagtgggg	cagtatccgc	gtattgagcg	gtctcggcta	gatggcacgg	agcgtgtggt	6600
404952	gctggtcaac	gtcagcatca	gctggcccaa	cggcatctca	gtggactacc	aggatgggaa	6660
404954	gctgtactgg	tgcgatgcac	ggacagacaa	gattgaacgg	atcgacctgg	agacaggtga	6720
404956	gaaccgcgag	gtggttctgt	ccagcaacaa	catggacatg	tttccagtgt	ctgtgtttga	6780
404958	ggatttcata	tactggagtg	acaggactca	tgccaacggc	tctatcaagc	gcgggagcaa	6840
404960	agacaatgcc	acagactccg	tgcccctgcg	aaccggcatc	ggcgtccagc	ttaaagacat	6900
404962	caaagtcttc	aaccgggacc	ggcagaaagg	caccaacgtg	tgcgcgggtg	ccaatggcgg	6960
404964	gtgccagcag	ctgtgcctgt	accggggccg	tgggcagcgg	gcctgcgcct	gtgcccacgg	7020
404966	gatgctggct	gaagacggag	catcgtgccg	cgagtatgcc	ggctacctgc	tctactcaga	7080
404968	gcgcaccatt	ctcaagagta	tccacctgtc	ggatgagcgc	aacctcaatg	cgcccggtga	7140
404970	gcccttcgag	gaccctgagc	acatgaagaa	cgatcatgcc	ctggcctttg	actaccgggc	7200
404972	aggcacctct	ccgggcaccc	ccaatcgcat	cttcttcagc	gacatccact	ttgggaacat	7260
404974	ccaacagatc	aacgacgatg	gctccaggag	gatcaccatt	gtggaaaacg	tgggctccgt	7320
404976	ggaaggcctg	gcctatcacc	gtggctggga	cactctctat	tggacaagct	acacgacatc	7380
404978	caccatcacg	cgccacacag	tggaccagac	ccgcccaggg	gccttcgagc	gtgagaccgt	7440
404980	catcactatg	tctggagatg	accacccacg	ggccttcggt	ttggacgagt	gccagaacct	7500
404982	catgttcttg	accaactgga	atgagcagca	tcccagcatc	atgcgggcgg	cgctctcggg	7560
404984	agccaatgtc	ctgaccctta	tcgagaagga	catccgtacc	cccaatggcc	tggccatcga	7620
404986	ccaccgtgcc	gagaagctct	acttctctga	cggcaccctg	gacaagatcg	agcgggtgca	7680
404988	gtatgacggc	tcccaccgct	atgtgatcct	aaagtccagc	cctgtccacc	ccttcgggct	7740
404990	ggcgtgtgat	ggggagcaca	ttttctggac	tgactgggtg	cggcgggcag	tgcagcgggc	7800
404992	caacaagcac	gtgggcagca	acatgaagct	gtgcgcgtg	gacatcccc	agcagcccat	7860
404994	gggcatcatc	gccgtggcca	acgacaccaa	cagctgtgaa	ctctctccat	gccgaatcaa	7920
404996	caacggtggc	tgccaggacc	tgtgtctgct	cactcaccag	ggccatgtca	actgctcatg	7980
404998	ccgagggggc	cgaatcctcc	aggatgacct	cacctgccga	gcgggtgaatt	cctcttgccg	8040
405000	agcacaagat	gagtttgagt	gtgccaatgg	cgagtgcata	aacttcagcc	tgacctgcga	8100
405002	cggcgctccc	cactgcaagg	acaagtccga	tgagaagcca	tctactgca	actcccgcg	8160
405004	ctgcaagaag	actttccggc	agtgcagcaa	tgggcgctgt	gtgtccaaca	tgctgtggtg	8220
405006	caacggggcc	gacgactgtg	gggatggctc	tgacgagatc	ccttgcaaca	agacagcctg	8280
405008	tgggtgtggg	gagttccgct	gccgggacgg	gacctgcata	gggaactcca	gccgctgcaa	8340
405010	ccagtttgtg	gattgtgagg	acgcctcaga	tgagatgaac	tgagtgcca	ccgactgcag	8400
405012	cagctacttc	cgctggggcg	tgaaggcgct	gctcttcag	ccctgcgagc	ggacctcact	8460
405014	ctgctacgca	cccagctggg	tgtgtgatgg	cggcaatgac	tgtggggact	acagtgatga	8520
405016	gcgcgactgc	ccaggtgtga	aacgccccag	atgcctctg	aattacttcg	cctgccctag	8580
405018	tgggcgctgc	atccccatga	gctggacgtg	tgacaaagag	gatgactgtg	aacatggcga	8640
405020	ggacgagacc	cactgcaaca	agttctgctc	agaggcccag	tttgagtgcc	agaacctcgc	8700
405022	ctgcatctcc	aagcagtggc	tgtgtgacgg	cagcgatgac	tgtggggatg	gctcagacga	8760

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/551,874

DATE: 10/17/2005

TIME: 12:14:47

Input Set : N:\FANTU\10551874.raw.txt

Output Set: N:\CRF4\10172005\J551874.raw

405024	ggctgctcac	tgtgaaggca	agacgtgcgg	ccccctctcc	ttctcctgcc	ctggcaccga	8820
405026	cgtgtgcgtc	cccagagcgt	ggctctgtga	cggtgacaaa	gactgtgctg	atggtgcaga	8880
405028	cgagagcatc	gcagctgggt	gcttgtaaaa	cagcacttgt	gacgaccgtg	agttcatgtg	8940
405030	ccagaaccgc	cagtgcaccc	ccaagcactt	cgtgtgtgac	cacgaccgtg	actgtgcaga	9000
405032	tggctctgat	gagtcccccg	agtgtgagta	cccagacctg	ggccccagtg	agttccgctg	9060
405034	tgccaatggg	cgctgtctga	gctcccgcca	gtgggagtg	gatggcgaga	atgactgcca	9120
405036	cgaccagagt	gacgaggctc	ccaagaaccc	acactgcacc	agcccagagc	acaagtgcaa	9180
405038	tgccctcgtc	cagttcctgt	gcagcagtg	gcgctgtgtg	gctgaggcac	tgctctgcaa	9240
405040	cggccaggat	gactgtggcg	acagctcgga	cgagcgtggc	tgccacatca	atgagtgtct	9300
405042	cagccgcaag	ctcagtggtt	gcagccagga	ctgtgaggac	ctcaagatcg	gcttcaagt	9360
405044	ccgctgtcgc	cctggcttcc	ggctgaagga	tgacggcccg	acgtgtgctg	atgtggacga	9420
405046	gtgcagcacc	accttcccct	gcagccagcg	ctgcatcaac	acccatggca	gctataagt	9480
405048	tctgtgtgtg	gagggctatg	caccccgcg	cggcgacccc	cacagctgca	aggctgtgac	9540
405050	tgacgaggaa	ccgtttctga	tcttcgcaa	ccgttactac	ctgcgcaagc	tcaacctgga	9600
405052	cgggtccaac	tacacgttac	ttaagcaggg	cctgaacaac	gccgttgctt	tggattttga	9660
405054	ctaccgagag	cagatgatct	actggacaga	tgtgaccacc	cagggcagca	tgatccgaag	9720
405056	gatgcacctt	aacgggagca	atgtgcaggt	cctacaccgt	acaggcctca	gcaaccccga	9780
405058	tgggctggct	gtggactggg	tgggtggcaa	cctgtactgg	tgcgacaaa	gccgggacac	9840
405060	catcgagggt	tccaagctca	atggggccta	tgggacggtg	ctggctcagct	ctggcctccg	9900
405062	tgagcccagg	gctctgggtg	tggatgtgca	gaatgggtac	ctgtactgga	cagactgggg	9960
405064	tgaccattca	ctgatcggtc	gcacggcat	ggatgggtcc	agccgcagcg	tcatcggtga	10020
405066	caccaagatc	acatggccca	atggcctgac	gctggactat	gtcactgagc	gcactctact	10080
405068	ggccgacgcc	cgcgaggact	acattgaatt	tgccagcctg	gatggctcca	atcgccacgt	10140
405070	tgtgctgagc	caggacatcc	cgcacatctt	tgcactgacc	ctgtttgagg	actacgtcta	10200
405072	ctggaccgac	tgggaaacaa	agtccattaa	ccgagcccac	aagaccacgg	gcaccaacaa	10260
405074	aacgctcctc	atcagcacgc	tgcaccggcc	catggacctg	catgtcttcc	atgccctgcg	10320
405076	ccagccagac	gtgcccacac	acccctgcaa	ggtcaacaat	ggtggctgca	gcaacctgtg	10380
405078	cctgctgtcc	cccggggggg	ggcacaacat	tgctgcccc	accaacttct	acctgggcag	10440
405080	cgatggggcg	acctgtgtgt	ccaactgcac	ggctagccag	tttgtatgca	agaacgacaa	10500
405082	gtgcatcccc	ttctggtgga	agtgtgacac	cgaggacgac	tgccggggacc	actcagacga	10560
405084	gcccccgga	tgccctgagt	tcaagtgcgc	gccccgacag	ttccagtgtc	ccacaggtat	10620
405086	ctgcacaaac	cctgccttca	tctgcgatgg	cgacaatgac	tgccaggaca	acagtgcaga	10680
405088	ggccaactgt	gacatccacg	tctgcttgcc	cagtcagttc	aaatgcacca	aacccaaccc	10740
405090	ctgtattccc	ggcatcttcc	gctgcaatgg	caggagcaac	tgccggagatg	gggaggatga	10800
405092	gagggactgc	cccagaggtg	cctgcgcccc	caaccagttc	cagtgtctca	ttaccaaacg	10860
405094	gtgcatcccc	cgggtctggg	tctgcgaccg	ggacaatgac	tgtgtggatg	gcagtgatga	10920
405096	gcccgcacac	tgcaaccaga	tgacctgtgg	tgtggacgag	ttccgctgca	aggattcggg	10980
405098	ccgctgcac	ccagcgcgtt	ggaagtgtga	cggagaggat	gactgtgggg	atggctcgga	11040
405100	tgagcccaag	gaagagtgtg	atgaacgcac	ctgtgagcca	taccagttcc	gctgcaagaa	11100
405102	caaccgctgc	gtgcccggcc	gctggcagtg	cgactacgac	aacgattgcg	gtgacaactc	11160
405104	cgatgaagag	agctgcaccc	ctcggccctg	ctccgagagt	gagttctcct	gtgccaacgg	11220
405106	ccgctgcac	gcggggcgct	ggaaatgcga	tggagaccac	gactgcgcgg	acggctcgga	11280
405108	cgagaaagac	tgcaaccccc	gctgtgacat	ggaccagttc	cagtgcgaaga	gcggccactg	11340
405110	catccccctg	cgctggcgct	gtgacgcaga	cgccgactgc	atggacggca	gcgacgagga	11400
405112	ggcctgcggc	actggcggtg	ggacctgccc	cctggacgag	ttccagtgca	acaacacctt	11460
405114	gtgcaagccg	ctggcctgga	agtgcgatgg	cgaggatgac	tgtggggaca	actcagatga	11520
405116	gaaccccgag	gagtgtgccc	ggttcgtgtg	ccctcccaac	cggcccttcc	gttgcaagaa	11580
405118	tgaccgcgtc	tgtctgtgga	tccggcgcca	atgcgatggc	acggacaact	gtggggatgg	11640
405120	gactgatgaa	gaggactgtg	agccccccac	agccacacac	accactgca	aagacaagaa	11700

## RAW SEQUENCE LISTING

DATE: 10/17/2005

PATENT APPLICATION: US/10/551,874

TIME: 12:14:47

Input Set : N:\FANTU\10551874.raw.txt

Output Set: N:\CRF4\10172005\J551874.raw

```

405122 ggagtttctg tgccggaacc agcgctgcct ctctcctcc ctgcgctgca acatgttcga 11760
405124 tgactgcggg gacggctctg acgaggagga ctgcagcatc gacccaagc tgaccagctg 11820
405126 cgccaccaat gccagcatct gtggggacga ggcacgctgc gtgcgcaccg agaaagcggc 11880
405128 ctactgtgcc tgccgctcgg gcttcacac cgtgcccggc cagcccgat gccaaacat 11940
405130 caacgagtgc ctgcgcttcg gcacctgctc ccagctctgc aacaacacca agggcggcca 12000
405132 cctctgcagc tgcgctcggg acttcatgaa gacgcacaac acctgcaagg ccgaaggctc 12060
405134 tgagtaccag gtctgtaca tcgctgatga caatgagatc cgcagcctgt tccccggcca 12120
405136 cccccattcg gcttacgagc aggcattcca ggggtgacgag agtgtccgca ttgatgctat 12180
405138 ggatgtccat gtcaaggctg gccgtgtcta ttggaccaac tggcacacgg gcaccatctc 12240
405140 ctaccgcagc ctgccacctg ctgcgcctcc taccacttcc aaccgccacc ggcgacagat 12300
405142 tgaccggggg gtcacccacc tcaacatttc agggctgaag atgccagag gcacgcgcat 12360
405144 cgactgggtg gccggaaacg tgtactggac cgactcgggc cgagatgtga ttgaggtggc 12420
405146 gcagatgaag ggcgagaacc gcaagacgct catctcgggc atgattgacg agccccacgc 12480
405148 cattgtgggt gaccactga gggggacat gtactgggtc gactggggca accaccccaa 12540
405150 gattgagacg gcagcgatgg atgggacgct tggggagaca ctggtgcagg acaacctca 12600
405152 gtggcccaac ggcctggccg tggattatca caatgagcgg ctgtactggg cagacgcca 12660
405154 gctttcagtc atcggcagca tccggctcaa tggcagggac ccatttgtgg ctgctgacag 12720
405156 caaacgaggc ctaagtacc ccttcagcat cgacgtcttt gaggattaca tctatggtgt 12780
405158 cacctacatc aataatcgtg tcttcaagat ccataagttt ggccacagcc ccttgggtcaa 12840
405160 cctgacaggg ggcctgagcc acgcctctga cgtggctcct taccatcagc acaagcagcc 12900
405162 cgaagtgacc aaccatgtg accgcaagaa atgcgagtgg ctctgcctgc tgagccccag 12960
405164 tgggcctgtc tgcacctgtc ccaatgggaa gcggctggac aacggcacat gcgtgcctgt 13020
405166 gccctctcca acgccccccc cagatgtctc ccggcctgga acctgtaacc tgcagtgtct 13080
405168 caacggtggc agctgtttcc tcaatgcacg gaggcagccc aagtgccgct gccaacccc 13140
405170 ctacacgggt gacaagtgtg aactggacca gtgctgggag cactgtcgca atgggggcac 13200
405172 ctgtgctgcc tccccctctg gcattgccac gtgccgggtg cccacgggct tcacggggcc 13260
405174 caaatgcacc cagcagggtg gtgcgggcta ctgtgccaac aacagcacct gcactgtcaa 13320
405176 ccagggcaac cagccccagt gccgatgcct acccggttc ctgggcgacc gctgccagta 13380
405178 ccggcagtgc tctggctact gtgagaactt tggcacatgc cagatggctg ctgatggctc 13440
405180 ccgacaatgc cgctgcactg cctactttga gggatcgagg tgtgaggtga acaagtgcag 13500
405182 ccgctgtctc gaaggggcct gtgtgggtcaa caagcagagt ggggatgtca cctgcaactg 13560
405184 cacgtagggc cgggtggccc ccagctgtct gacctgcgtc ggccactgca gcaatggcgg 13620
405186 ctccgtgacc atgaacagca aaatgatgcc tgagtgcagg tgcccacccc acatgacagg 13680
405188 gccccgggtg gaggagcacg tcttcagcca gcagcagcca ggacatatag cctccatcct 13740
405190 aatccctctg ctgttgctgc tgctgctggt tctgggtggc ggagtgggtat tctgggtataa 13800
405192 gcggcgagtc caaggggcta agggcttcca gcaccaacgg atgaccaacg gggccatgaa 13860
405194 cgtggagatt ggaaacccca cctacaagat gtacgaaggc ggagagcctg atgatgtggg 13920
405196 aggcctactg gacgctgact ttgccctgga ccctgacaag cccaccaact tcaccaaccc 13980
405198 cgtgtatgcc acactctaca tggggggcca tggcagtcgc cactccctgg ccagcacgga 14040
405200 cgagaagcga gaactcctgg gccggggccc tgaggacgag ataggggacc ccttggcata 14100
405202 gggccctgcc ccgtcggact gcccacagaa agcctcctgc cccctgccgg tgaagtctt 14160
405204 cagttagccc ctccccagcc agcccttccc tggccccgcc ggatgtataa atgtaaaaat 14220
405206 gaaggaatta cattttatat gtgagcgagc aagccggcaa gcgagcacag tattatttct 14280
405208 ccatccctc cctgcctgct ccttggcacc cccatgctgc cttcagggag acaggcaggg 14340
405210 agggcttggg gctgcacctc ctaccctccc accagaacgc accccactgg gagagctggt 14400
405212 ggtgcagcct tccccctcct gtataagaca ctttgccaag gctctccct ctcgccccat 14460
405214 ccctgcttgc ccgtccccc agcttctctga gggctaattc tgggaaggga gatttctttg 14520
405216 ctgcccctgt ctggaagacg tggctctggg tgaggtaggc gggaaaggat ggagtgtttt 14580
405218 agttcttggg ggaggccacc ccaaacccca gcccacactc caggggcacc tatgagatgg 14640

```

## RAW SEQUENCE LISTING

DATE: 10/17/2005

PATENT APPLICATION: US/10/551,874

TIME: 12:14:47

Input Set : N:\FANTU\10551874.raw.txt

Output Set: N:\CRF4\10172005\J551874.raw

E--> 405220 ccattgctcaa cccccctccc agacaggccc tccctgtctc cagggccccc accgaggttc 14700  
 405222 ccagggctgg agacttcctc tggtaaacaat tccctccagcc tccccctccc tggggagcgc 14760  
 405224 aaggaggtgg gccacaccca ggaagggaaa gcgggcagcc ccgttttggg gacgtgaacg 14820  
 405226 ttttaataat ttttgcgtgaa ttctttacaa ctaaataaca cagatattct tataaataaa 14880  
 405228 attgtaaaaa aaaaaa 14896 ← insert  
 405231 <210> SEQ ID NO: 10523  
 405232 <211> LENGTH: 16556  
 405233 <212> TYPE: DNA  
 405234 <213> ORGANISM: Homo sapiens  
 405237 <220> FEATURE:  
 405238 <223> OTHER INFORMATION: III.4151 (NM\_018557)  
 405240 <220> FEATURE:  
 405241 <221> NAME/KEY: misc\_feature  
 405242 <222> LOCATION: (13999)..(13999)  
 405243 <223> OTHER INFORMATION: n is a, c, g, or t  
 405245 <220> FEATURE:  
 405246 <221> NAME/KEY: misc\_feature  
 405247 <222> LOCATION: (15128)..(15128)  
 405248 <223> OTHER INFORMATION: n is a, c, g, or t  
 405250 <400> SEQUENCE: 10523  
 405251 aaagacagaa ccccagagaa aaacgctgcc aattcggttc tttattgttc cctgcctggg 60  
 405253 gacctcaata gccttttcca ttaaccttcc ctctctacgc aacggttaat gacttttggg 120  
 405255 gttgttttgc tttctgtttc tgctgagtca ctaaattttg cctctttgtc cccaggtgct 180  
 405257 gctcagcata aaagttaaaa gtgcaattca ggaagtactg ggattctgtg tagagccgag 240  
 405259 gaaaccattt ccctaagaga agctctgttc cttggcttgt ccttccttcc cgggaaggaa 300  
 405261 gcttccgagg aacgaaggga gaagctttgt tttgcctgca gaagcagccc tgtgctcggc 360  
 405263 tgagggttct cagctggctg tgaactgcgg agcattgtag gcgcctggct ggctcaggcc 420  
 405265 aatgcagaag tctctccctt ctccaaagac ccaaattccc acagaaccag ctctcgagta 480  
 405267 ctttcccttc aaggggatta aaataattgt gatttgtggc gctctccgtt cgcggtggtg 540  
 405269 ttttccctgt gtgttaaatg cctcttatta agtaatatag gtgatttatg tgaacgacga 600  
 405271 aggggtgtgt ggtggattcg gtgattaatc agtgaattcc catccgctgg catctctcac 660  
 405273 tgccctctt gcgctgatga agatcagacg taccctgcat tgaaaagtca agacacacgg 720  
 405275 gcgtctcgct ccgcgtcaca cagcgtctgc ctctctctc ccgcacgcgc gcatccctcc 780  
 405277 accttccaca tccgtgctcca ggcagagaaa ggctgactgg ctggactcat tgagctgaag 840  
 405279 aatttccagt gacatttgta aatgacgccg ctcgattcca ggctccaagc ggccgctgcc 900  
 405281 gccgcgcgcg ccgcgcggcc gaaggtgccg ccgagcagtc tccagcgcag gcttccttac 960  
 405283 cgggcgacca caatgtccga gtttctcctc gccttactca ctctctcggg attattgccg 1020  
 405285 attgccaggg tgctgaccgt gggagccgac cgagatcagc agttgtgtga tccctggtgaa 1080  
 405287 tttctttgcc acgatcacgt gacttgtgtc tcccagagct ggctgtgtga tggggaccct 1140  
 405289 gactgccctg atgattcaga cgagtcttta gatacctgtc ccgaggaggt agaaatcaag 1200  
 405291 tgcccttga atcacattgc ttgccttggt accaacaat gtgttcattt atcccagctg 1260  
 405293 tgcaatggtg tcttggaactg cccagatggg tatgacgaag gactacattg tcaggaactg 1320  
 405295 ttatccaatt gccaacagct gaattgtcag tataaatgta caatggtcag aaatagtaca 1380  
 405297 agatgttact gtgaggatgg attcgaaata acagaagatg ggagaagctg taaagatcaa 1440  
 405299 gatgaatgtg ctgtttatgg tacatgcagc cagacctgca gaaacacaca tggatcctac 1500  
 405301 acttgagtt gtgtggaagg ctacctaatg cagccagaca acagatcttg caaggctaaa 1560  
 405303 attgaacctc cagatagacc acctatacta ttaattgcaa attttgaaac aattgaggtt 1620  
 405305 ttctatctta atggaagtaa aatggcaact ctaagctcag tcaatggaaa tgaaattcat 1680  
 405307 actctggatt ttatttataa tgaagatatg atttgttggg ttgaatcaag agaattctca 1740



## RAW SEQUENCE LISTING

DATE: 10/17/2005

PATENT APPLICATION: US/10/551,874

TIME: 12:14:47

Input Set : N:\FANTU\10551874.raw.txt

Output Set: N:\CRF4\10172005\J551874.raw

405309	aatcaactca	aatgtatcca	gataacaaaa	gcaggaggat	taacagatga	atggacaatc	1800
405311	aatattcttc	aatccttcca	caatgtgcaa	caaattggcg	ttgactggct	cactcgaaat	1860
405313	ctctattttg	tggaccatgt	cggtgaccgg	atctttgttt	gtaattccaa	cggttctgta	1920
405315	tgtgtcacc	tgattgatct	ggagcttcac	aatcctaaag	caatagcagt	agatccaata	1980
405317	gcaggaaaac	ttttctttac	tgactacggg	aatgtcgcca	aagtggagag	atgtgacatg	2040
405319	gatgggatga	accgaacaag	gataattgat	tcaaagacag	agcagccagc	tgactggca	2100
405321	ctagacctag	tcaacaaatt	ggtttactgg	gtagatcttt	acttggacta	tgtgggagta	2160
405323	gtggactatc	aaggaaaaaa	tagacacact	gtcattcaag	gcagacaagt	cagacatctt	2220
405325	tatggtataa	ctgtgtttga	agattatttg	tatgcaacca	attctgataa	ctacaatatc	2280
405327	gtaaggataa	accgatttaa	tgggactgat	attcactcat	taattaaaat	tgagaatgct	2340
405329	tggggaatcc	gaatttatca	aaaaagaact	caaccaacag	tcaagaagcca	tgcatgtgaa	2400
405331	gtcgatccat	atggaatgcc	agggggctgt	tcacacatct	gtctactcag	cagcagttac	2460
405333	aaaactcgga	cttgtcgctg	caggactggc	ttcaacttgg	gaagtgatgg	caggtcatgc	2520
405335	aaaagaccaa	agaatgagtt	gttcctcttt	tatgggaaag	gacgccagg	aattgttaga	2580
405337	ggaatggact	tgaataccaa	gatagctgat	gaatacatga	tccccataga	aaatctggta	2640
405339	aaccctcgty	ctttagactt	tcacgcagaa	accaattaca	tctactttgc	tgacaccacc	2700
405341	agtttccctaa	ttggccggca	gaagatagat	ggcacagaga	gagaaacccat	cctgaaagat	2760
405343	gatctggata	atgtagaggg	cattgctgtg	gactggattg	gaaataatct	ttactggacc	2820
405345	aatgatggcc	ataggaaaac	cattaatgtg	gccaggctgg	aaaaagcttc	tcagagtcgg	2880
405347	aagactcttt	tagagggtga	aatgtctcat	cccagaggaa	ttgtgggtgga	tccagttaat	2940
405349	ggttggatgt	attggacaga	ctgggaggaa	gatgaaatag	atgacagcgt	gggaaggatt	3000
405351	gagaaggcct	ggatggatgg	attcaatcgg	cagatttttg	tgacttcaaa	gatgctgtgg	3060
405353	ccaaacgggt	taactctgga	ctttcacacc	aacacattat	actggtgtga	tgccatttac	3120
405355	gatcatattg	aaaaagtatt	tttgaatggg	actcacagga	agattgttta	cagtgggaga	3180
405357	gagttgaacc	accctttcgg	actgtcgcat	catggaaatt	atgtgttctg	gactgattat	3240
405359	atgaatgggt	ccatttttca	actagatttg	ataacaagtg	agggtgacatt	gctgaggcat	3300
405361	gaaagaccac	ccctatttgg	gcttcagatt	tatgatccac	gaaagcaaca	agggtgacaat	3360
405363	atgtgccgag	taaataatgg	gggctgtagt	acactttgct	tggtatccc	aggaggccgg	3420
405365	gtgtgtgctt	gtgccgataa	tcaacttttg	gatgaaaatg	ggacaacttg	cacatttaat	3480
405367	cctggagaag	cactacctca	catatgtaaa	gctggagagt	ttcgctgcaa	aaacagacac	3540
405369	tgtatccaag	ctcgggtgaa	atgtgatggc	gacgatgact	gcctagacgg	aagcgatgag	3600
405371	gattcagtaa	actgcttcaa	tcatagtctg	cctgatgatc	agtttaaatg	ccagaataat	3660
405373	gcctgcatcc	ccaagagatg	gctttgtgat	ggagctaattg	actgtgggag	caatgaaagat	3720
405375	gaatccaatc	aaacttgcac	agccagaaca	tggccaggtag	accagttttc	ttgcgggaaat	3780
405377	gggcgttgca	ttcccagagc	atggctgtgt	gacagggaag	acgactgtgg	tgaccagaca	3840
405379	gatgaaatgg	catcttgtga	attcccaact	tgtgagccac	taaccaaat	cgtatgcaaa	3900
405381	agtggaagat	gcattagcag	caaattggc	tgcgactctg	atgacgactg	tggggacggg	3960
405383	agtgatgagg	tgggctgtgt	tactcttgc	tttgataatc	agttcagatg	ttccagtggc	4020
405385	agatgcatcc	caggccactg	ggcctgtgat	ggtgacaatg	actgtgggga	cttcagtgat	4080
405387	gaagcccaga	tcaattgtac	taaagaagag	attcattctc	ctgctggttg	taacgggaaat	4140
405389	gaatttcagt	gccaccctga	tggtaattgc	gttcctgatt	tgtggcgctg	tgatggagaa	4200
405391	aaagactgtg	aagatggtag	tgatgaaaaa	ggttgcaatg	gtaccatacg	attgtgtgac	4260
405393	cacaaaacca	agttttcctg	ttggagtaca	gggagatgca	tcaacaaagc	atgggtgtgt	4320
405395	gatggagata	ttgattgcga	agatcagtca	gatgaagatg	actgtgacag	tttcttgtgt	4380
405397	ggaccaccca	agcatccttg	tgctaattgac	acctcagctc	gcctgcagcc	agagaaactc	4440
405399	tgcaatggga	aaaaggattg	tctgatggc	tctgatgaag	gctatctctg	tgatgagtgt	4500
405401	tcgctgaaca	atggaggctg	tagcaaccac	tgttctgttg	ttcctggaag	aggaattgtc	4560
405403	tgttctctgc	ctgaaggact	tcaactcaac	aaagacaata	aaacatgtga	aattgtggat	4620
405405	tattgtagca	atcatctaaa	gtgcagccaa	gtatgtgagc	agcacaagca	cacagtcaag	4680



## RAW SEQUENCE LISTING

DATE: 10/17/2005

PATENT APPLICATION: US/10/551,874

TIME: 12:14:47

Input Set : N:\FANTU\10551874.raw.txt

Output Set: N:\CRF4\10172005\J551874.raw

405407	tgctcatgtt	atgaaggttg	gaagctggat	gtagacggtg	aaagttgtac	aagtgttgat	4740
405409	ccttttgaag	cattcatcat	cttttctatt	cgtcatgaga	tcagaaggat	tgatcttcac	4800
405411	aaaagagact	atagtctact	tgttcctgga	ttgagaaaca	caatagcact	tgattttcac	4860
405413	ttcaatcaaa	gtttacttta	ttggacagat	gttgtagaag	acagaatata	ccggggaaag	4920
405415	ctttctgaaa	gtggaggtgt	cagtgccatt	gaagtgggtg	tggagcatgg	cctggctact	4980
405417	ccagaaggcc	tgacagtcga	ctggatagca	ggaaacatat	actggataga	cagcaatctg	5040
405419	gaccaaactg	aagtggccaa	actagatggc	tccctaagaa	ctacactaat	agcaggagcc	5100
405421	atggaaacacc	ccagggccat	tgctttggac	ccaagatatg	gaattctttt	ctggacagac	5160
405423	tgggatgcaa	attttcctcg	cattgaatct	gcctctatga	gtgggtgctgg	gagaaaaacc	5220
405425	atctataaaag	acatgaaaac	tggggccttg	cctaattggac	taactgtgga	ccactttgag	5280
405427	aaaaggatag	tgtggacaga	cgccagggtca	gatgctatgt	attcagccct	ctatgatgga	5340
405429	acaacatga	tagaaatcat	ccgaggtcat	gaataccttt	cccatccctt	tgctgtgtct	5400
405431	ctatatggga	gtgaagtcta	ctggacagac	tggaggacca	acacattgtc	caaagccaat	5460
405433	aagtggacag	ggcagaatgt	cagtgtgatt	cagaaaacca	gtgcacagcc	atttgacctt	5520
405435	cagatatacc	atcccagtcg	ccagccacag	gctcccaatc	cttgtgcagc	taatgatggc	5580
405437	aaaggccctt	gctctcacat	gtgtctaata	aatcacataa	ggagtgtgtc	ctgtgcgtgc	5640
405439	ccccacttga	tgaagctttc	ttcagacaag	aagacctgct	atgaaatgaa	aaaatttctt	5700
405441	ctttatgcaa	gacgttctga	aatcagagga	gtggatattg	acaatccata	ctttaacttc	5760
405443	atcacggcat	ttacagtccc	tgatattgat	gacgttactg	tgatagactt	cgatgcatct	5820
405445	gaggaacgtt	tatactggac	agatattaaa	acacaaacca	ttaaaccgagc	ttttattaac	5880
405447	ggaactgggt	tagaaactgt	tatttcaaga	gatattcaga	gtatcagagg	gctagcagtg	5940
405449	gattgggtgt	cacgtaattt	atactggatt	agctcagaat	ttgatgaaac	gcaaattaat	6000
405451	gtggcaaggc	tagatggctc	tttgaaaacc	tcaattatcc	atggaatcga	taagccacag	6060
405453	tgtcttgtag	ctcaccagct	caggggaaaa	ctctactgga	ccgatggaaa	cacaattaac	6120
405455	atggcaaaata	tggatggcag	taatagcaag	attctgtttc	agaatcagaa	ggagccagtt	6180
405457	ggtctatcga	tagactatgt	ggaaaacaag	ctttatttga	tcagttcggg	gaatggaacc	6240
405459	ataaatagat	gcaacctgga	tggtggtaat	ttagaagtaa	tcgagtcaat	gaaagaagaa	6300
405461	ttaacaaaag	ctacagccct	aaccatcatg	gataagaaac	tgtggtgggc	agaccaaacc	6360
405463	ttagcccagc	taggaacctg	cagcaaaaaga	gacggaagaa	accccaccat	cctacggaat	6420
405465	aagacttctg	gggtagtcca	tatgaaagtc	tatgataaag	aagcacagca	aggcagcaat	6480
405467	tcttgccaac	taaacaatgg	tggatgctct	caactttgtt	taccaacatc	tgaactaca	6540
405469	aggacttgta	tgtgtacagt	gggatattat	ctccaaaaga	accgtatgtc	atgtcaaggt	6600
405471	atagaatcat	ttcttatgta	ctctgttcac	gcaggaaatca	ggggaatacc	tcttgaacca	6660
405473	agtgcacaaa	tggatgcttt	gatgcctata	tcaggaaactt	catttgccgt	gggaatagat	6720
405475	ttccatgcag	aaaatgatac	catctactgg	acagacatgg	gcttcaataa	aattagcaga	6780
405477	gctaaaagag	atcagacttg	gaaagaagat	atcattacca	atggcttggg	aagagtggaa	6840
405479	gggatagctg	ttgactggat	tgctggtaac	atatatttga	cagatcatgg	tttcaactta	6900
405481	attgaagttg	caagactcaa	tgggtctttc	cgttatgtaa	ttatttccca	aggcctggat	6960
405483	caaccaagat	ctatagctgt	gcacccagag	aaaggcctct	tgttctggac	tgaatgggga	7020
405485	caaatgccct	gtattggaaa	ggctcgcttg	gatggctcag	agaaggttgt	ccttgtaagc	7080
405487	atgggaatag	catggccgaa	tggcatctcc	atcgactatg	aggaaaataa	attgtactgg	7140
405489	tgtgatgctc	gcacagacaa	gatagagaga	atcgaccttg	agactggagg	gaatcgcgag	7200
405491	atgggtgctgt	caggaagcaa	tgtggatatt	ttttcagttg	cagtcttttg	ggcttacatc	7260
405493	tactggtctg	acagagcaca	tgcaaacggg	tctgtcagaa	ggggccacaa	gaatgatgcc	7320
405495	acagaaacga	taaccatgag	aaccggcctt	ggagtcaacc	tgaaggaggt	taaaatattt	7380
405497	aaccgagtaa	gagagaaagg	gaccaatgtt	tgtgccaggg	acaatggtgg	ctgtaagcaa	7440
405499	ctctgtcttt	atcgaggaaa	ttcccggaga	acttgtgctt	gtgcccattg	atatttggca	7500
405501	gaagatggag	ttacttgcct	gaggcatgaa	ggctattttac	tgtatttcagg	aagaacaata	7560
405503	ttaaaaagta	tacatctttc	tgatgaaacc	aattttaatt	ccccaataag	gccatattgag	7620

## RAW SEQUENCE LISTING

DATE: 10/17/2005

PATENT APPLICATION: US/10/551,874

TIME: 12:14:47

Input Set : N:\FANTU\10551874.raw.txt

Output Set: N:\CRF4\10172005\J551874.raw

405505	aatccacggt	atttcaagaa	tgtcatagcc	ttggcttttg	actataatca	aagaagaaaa	7680
405507	ggtaccaacc	gaatctttta	cagtgatgca	cactttggaa	atatacagct	tattaaagac	7740
405509	aactgggaag	acagacaagt	aattgttgaa	aatgtgggtt	ctgtggaagg	acttgccctat	7800
405511	cacagagcct	gggatacact	gtactggaca	agctctacca	cctcatccat	caccagacac	7860
405513	actgtggacc	agactcggcc	tggagcattt	gacaggggaag	ctgtcatcac	catgtcagaa	7920
405515	gatgaccatc	cacatgtgct	agccttggat	gaatgtcaaa	atttaaatgtt	ttggaccaac	7980
405517	tggaatgaac	aacatccaag	tatcatgaga	tctactctga	ctgggaaaaa	tgctcaagtg	8040
405519	gtggtcagta	cagacatact	cactccaaat	ggacttacta	tcgactaccg	tgagagaaag	8100
405521	ctgtattttct	cagatggcag	tctaggaaaa	attgaaaggt	gtgaatacga	tggtatccag	8160
405523	agacatgtga	tagttaaatc	tgggccaggg	actttcctca	gtttggctgt	ttatgacaat	8220
405525	tatatattct	ggtcggactg	gggaagaaga	gctatactgc	ggtccaacaa	gtacacagga	8280
405527	ggagatacaa	aaattcttcg	ttccgatatt	ccacatcagc	caatgggaat	catagctgtt	8340
405529	gccaatgaca	ccaatagctg	tgaactttct	ccatgtgcat	tattgaatgg	aggctgccat	8400
405531	gacttgtgcc	ttttaactcc	caatgggaga	gtgaattgtt	cctgcagagg	ggaccgaata	8460
405533	ttgctagagg	acaacagatg	tgtgactaaa	aattcctcct	gcaacgctta	ttcggagttt	8520
405535	gaatgtggaa	aatggtgagt	cattgactac	cagctcacct	gtgatggcat	tcctcactgt	8580
405537	aaagataaat	cagatgaaaa	actgctctac	tgtgaaaaaca	gaagctgtcg	aagaggcttc	8640
405539	aagccatgct	ataatcgccg	ctgcattcct	catggcaagt	tatgtgatgg	agaaaaatgac	8700
405541	tgccggagaca	actctgatga	attagattgt	aaagtttcaa	cctgtgccac	ggttgagtgc	8760
405543	cgctgtgcag	atgggacttg	tattccaaga	tcagcacgat	gcaaccagaa	catagattgt	8820
405545	gcagatgctt	cagatgaaaa	gaactgcaat	aacacagact	gcacacattt	ctataagctt	8880
405547	ggagtgaaaa	ccacagggtt	cataagatgt	aattctacct	cactgtgtgt	tctgccaaac	8940
405549	tggatatgcg	acgggtctaa	tgactgtgga	gactattcag	atgaattaaa	gtgccagttt	9000
405551	cagaacaaac	acaaatgtga	agaaaattat	tttagttgtc	ctagtggaa	atgcattttg	9060
405553	aatacctgga	tatgcatggt	tcagaaagat	tgtgaggatg	gacgtgatga	attccactgt	9120
405555	gattcttctt	gctcttggaa	ccaatttgct	tgttccgcac	aaaaatgtat	ttctaagcat	9180
405557	tggatttggt	atggagaaga	tgactgtggg	gatgggttag	atgaaagtga	cagcattttgt	9240
405559	ggtgccataa	cctgtgctgc	tgacatgttc	agctgccagg	gctctcgtgc	ctgcgtgccc	9300
405561	cgacattggc	tttgtgatgg	tgaaggggac	tgtccagatg	gaagcgatga	gctttccaca	9360
405563	gcaggctgcg	ctcccaataa	tacatgtgat	gaaaatgctt	tcatgtgcca	taataaagta	9420
405565	tgcatctcca	agcaatttgt	ttgtgaccat	gatgacgact	gtggagatgg	ctctgatgag	9480
405567	tcaccgcagt	gtggataacc	acagtgtggg	acagaagaat	ttagttgtgc	tgatgggcgg	9540
405569	tgtcttctaa	atactcaatg	gcagttgtgat	ggagactttg	actgtcctga	ccattctgat	9600
405571	gaagcacctt	taaaccctaa	gtgtaaaagt	gcagaacagt	catgcaacag	ttcatttttt	9660
405573	atgtgcaaaa	atggcagggt	cattcccagt	ggagggtctt	gtgacaataa	ggatgactgt	9720
405575	ggcgatgggt	cagatgagag	aaactgccat	ataaatgaat	gtttgagtaa	gaaagtgcgt	9780
405577	ggatgttctc	aagattgtca	agaccttccg	gtcagttata	agtgcacaa	ctggcctgga	9840
405579	ttccaactga	aggatgacgg	caaaacatgt	gtagacattg	atgaatgctc	ttcaggcttt	9900
405581	ccctgtagcc	agcaatgcat	caatacatac	gggacttaca	agtgcctctg	tacagatggg	9960
405583	tatgaaatac	aacctgataa	cccaaattgg	tgcaaatcgc	tctcagatga	agaacctttt	10020
405585	ttaattcttg	ctgatcatca	tgagataagg	aaaattagca	ctgatggctc	caactacaca	10080
405587	cttttaaaac	agggattaaa	caatgttatt	gctatagact	ttgattacag	agaagaattc	10140
405589	atctattgga	tcgattctag	ccgacccaat	ggcagtcgca	taaatagaat	gtgttttaaat	10200
405591	ggaagtgaca	ttaaggtagt	tcataacaca	gcggtcccca	atgcacttgc	tgctcgattgg	10260
405593	attggaaaaa	acctctattg	gtctgacaca	gaaaaaagaa	tcattgaagt	atccaaactc	10320
405595	aatggcttgt	acctactat	actcgttagc	aaaaggctga	agtttcccag	agacttgtct	10380
405597	ttagatcctc	aagctggata	tttgtattgg	attgactgct	gcgagtatcc	tcattattggc	10440
405599	cgtgttggaa	tggatggaac	caatcagagt	gttgtcatag	aaaccaagat	ttctagacct	10500
405601	atggcactaa	caatagatta	tgttaatcgt	agactctact	gggccgatga	aaatcacatt	10560

## RAW SEQUENCE LISTING

DATE: 10/17/2005

PATENT APPLICATION: US/10/551,874

TIME: 12:14:47

Input Set : N:\FANTU\10551874.raw.txt

Output Set: N:\CRF4\10172005\J551874.raw

405603	gaatttagca	acatggatgg	atctcataga	cacaaagtcc	ctaatacaaga	tattccaggg	10620
405605	gtgattgcac	taacattgtt	tgaagactac	atctactgga	ctgatgggaa	aaccaagtca	10680
405607	ctcagccgtg	cccataaaac	atcgggagca	gacagactct	cactgattta	ctcatggcat	10740
405609	gccatcacag	atatccaggt	gtatcattct	tatagacaac	ctgatgtctc	caaacatctc	10800
405611	tgcataataa	ataatgggtg	ttgcagtcac	ttgtgccttt	tagccctggg	aaaaacccac	10860
405613	acttgtgcat	gtcccactaa	cttctatctg	gcagctgata	ataggacttg	cttatccaac	10920
405615	tgcacagcca	gccagtttct	ttgcaaaact	gacaaatgta	ttccattctg	gtggaaatgt	10980
405617	gacaccgtgg	atgactgtgg	tgatggatct	gatgaacctg	atgactgtcc	tgaatttaga	11040
405619	tgtcagccag	gccgatttca	gtgtgggact	ggactctgtg	ctctaccagc	tttcatctgt	11100
405621	gatggagaga	atgattgtgg	agacaattct	gatgaactca	actgtgacac	acatgtctgc	11160
405623	ctgtcaggtc	aattcaaatg	taccaagaac	cagaaatgta	tcccagtaaa	cttaagatgt	11220
405625	aatgggcaag	atgactgtgg	tgatgaggaa	gatgaaagag	actgtcctga	aaacagctgt	11280
405627	tctccagact	atttccagtg	taagactacg	aagcattgca	tttccaagct	gtgggtttgt	11340
405629	gacgaggatc	cagactgtgc	agatgcatca	gacgaggcca	actgcgataa	aaagacttgt	11400
405631	ggacctcatg	aattccagtg	taaaaaaac	aactgtattc	ccgatcactg	gcggtgtgat	11460
405633	agccaaaatg	actgcagtga	taattcagat	gaagaaaact	gtaagccaca	gacatgtaca	11520
405635	ttgaaaagatt	tctctgtgac	caatggggac	tgtgtttctt	caagggtttg	gtgtgatgga	11580
405637	gattttgact	gtgcagatgg	ctctgatgag	agaaattgtg	agacaagtgt	ttccaaagat	11640
405639	cagttccggt	gttccaatgg	tcagtgtata	ccagcaaaat	ggaaatgtga	tggccatgaa	11700
405641	gactgcaaat	atgggggaaga	tgaagaaagc	tgtgagccag	cttctcctac	ttgtcatca	11760
405643	cgtgaatata	tatgtgccag	tgatggatgt	atttcagcat	ctttgaaatg	taatggagaa	11820
405645	tatgattgtg	ctgatgggtc	agatgagatg	gactgtgtga	ctgaatgtaa	ggaagatcag	11880
405647	tttcggtgca	aaaataaagc	ccactgtatt	ccaattagat	ggctgtgtga	tgggaattcat	11940
405649	gactgtgtgg	atggcagtga	tgaagagaac	tgtgaaagag	gaggaaatat	atgtagagct	12000
405651	gatgagttcc	tttgcaataa	ttctctctgc	aaactacatt	tctgggtgtg	tgatggagag	12060
405653	gacgactgtg	gagacaactc	tgatgaagcc	cctgatatgt	gtgtcaaatt	tctttgtcca	12120
405655	tccacgagac	ctcacagatg	cagaaataac	agaatatgcc	tacagtcgga	gcaaagtgtc	12180
405657	aatgggattg	atgaatgcgg	tgaacaattca	gatgaagatc	actgtgggtg	taagctgaca	12240
405659	tataaagcaa	ggccttgtaa	aaaggatgag	tttgcttgta	gtaataaaaa	atgcatccct	12300
405661	atggatctcc	agtgtgatcg	acttgatgac	tgcggagatg	gttcagatga	gcaaggatgc	12360
405663	agaatagctc	ctactgaata	tacctgtgaa	gataatgtga	atccatgtgg	agatgatgca	12420
405665	tattgtaatc	aaataaaaaac	atctgttttc	tgtcgctgta	agcctggatt	tcagagaaac	12480
405667	atgaaaaaca	gacaatgtga	agaccttaac	gaatgtttgg	tgtttggcac	atgttcccat	12540
405669	caatgtataa	atgtggaagg	atcatataaa	tgtgtgtgtg	accagaattt	tcaagaaaga	12600
405671	aataacacct	gcatagcaga	aggctctgaa	gatcaagttc	tctacattgc	taatgacact	12660
405673	gatatcctgg	gttttatata	tccattcaac	tacagtggcg	atcatcaaca	aatttctcat	12720
405675	attgaacata	attcaagaat	aacagggatg	gatgtatat	atcaaagaga	tatgattatt	12780
405677	tggagtactc	agtttaatcc	aggcggaatt	ttctacaaaa	ggatccatgg	cagagaaaaa	12840
405679	aggcaagcaa	acagtggctt	gatttgtcct	gaatttaaaa	ggcccaggga	cattgcagtt	12900
405681	gactgggtgg	ctggaaacat	ttactggact	gatcattcta	gaatgcattg	gttcagttac	12960
405683	tacactactc	actggaccag	tctgaggtac	tctatcaacg	tagggcagct	gaatggcccc	13020
405685	aactgcacca	gactcttaac	aaatatggct	ggagaaccct	atgctattgc	agtaaatcct	13080
405687	aaaagagggga	tgatgtactg	gactgttggt	ggggatcatt	cccatataga	agaagcagcc	13140
405689	atggatggta	cactgagaag	gatttttagta	caaaaagaact	tacagagacc	cacaggtttg	13200
405691	gctgtggatt	atttttagtga	acgcatatat	tgggctgact	ttgagctctc	catcattggc	13260
405693	agtgttctgt	atgatggctc	taattcagta	gtctctgtca	gcagcaaaaca	aggtttatta	13320
405695	catccacata	ggatcgatat	ctttgaagat	tatatatatg	gagcaggacc	taaaaatggt	13380
405697	gtatttcgag	ttcaaaaatt	tggccatggg	tcagtagagt	acttagcttt	aaatattgat	13440
405699	aaaacaaaag	gtgttttgat	atctcatcgt	tataaacaac	tagatttacc	caatccatgc	13500

## RAW SEQUENCE LISTING

DATE: 10/17/2005

PATENT APPLICATION: US/10/551,874

TIME: 12:14:47

Input Set : N:\FANTU\10551874.raw.txt

Output Set: N:\CRF4\10172005\J551874.raw

405701 ttggatttag catgcgaatt tctttgcttg ctaaactcctt ctggggccac ttgtgtgtgt 13560  
 405703 ccagaaggaa aatatttgat taatggcacc tgcaatgatg acagcctgtt agatgattca 13620  
 405705 tgtaagttaa cttgtgaaaa tggaggaaga tgcattttta atgagaaagg tgatttgagg 13680  
 405707 tgctactgtt ggcccagtta ttcaggagaa agatgtgaag tcaaccactg tagcaactac 13740  
 405709 tgccagaatg gaggaacttg cgtaccatca gttctaggga gacccacctg cagctgtgca 13800  
 405711 ctgggtttca ctgggccaac ctgtggtaag acagtctgtg aggatttttg tcaaaatgga 13860  
 405713 ggaacctgca ttgtgactgc tggaaaccag ccttactgcc actgccagcc ggaatacacc 13920  
 405715 ggagacagat gtcagtacta cgtgtgccac cactattgtg tgaattctga atcatgtacc 13980  
 W--> 405717 attgggggatg atggaagtnt tgaatgtgtc tgtccaacgc gctatgaagg accaaaatgt 14040  
 405719 gaggttgaca agtgtgtaag gtgccatggg gggcactgca ttataataaa agacagtga 14100  
 405721 gatataattt gcaactgcac taatggaaag attgcctcta gctgtcagtt atgtgatggc 14160  
 405723 tactgttaca atggtggcac atgccagctg gaccccgaga caaatgtacc tgtgtgtcta 14220  
 405725 tgctccacca actggtcagg cacacagtgt gaaaggccag ccccaaagag cagcaagtct 14280  
 405727 gatcatatca gcacaagaag ctttgccatc attgtgcctc tcgtcctctt ggtgactttg 14340  
 405729 ataaccacct tagtaattgg tttagtgtct tgtaaaagaa aaagaaggac aaaaacaatt 14400  
 405731 agaagacaac ctattatcaa tggaggaata aatgtagaaa ttggcaatcc atcttataac 14460  
 405733 atgtatgagg tagatcatga tcacaacgat ggaggtcttt tagatcctgg ctttatgata 14520  
 405735 gacccaacaa aggccaggta cataggggga ggacccagtg ctttcaagct tccacacaca 14580  
 405737 gcgcgcacca tctacctaaa ctctgatttg aaaggaccac taactgctgg gccacaacaa 14640  
 405739 tactccaatc cggatatatg aaaattatat atggatgggc aaaactgtcg aaactcctta 14700  
 405741 ggaagtgttg atgaaaggaa agaactgctt ccaaagaaaa tagaaattgg tataagagag 14760  
 405743 acagtggcat aatcagtgat atcttttata tgctgtataa atgtataaaa tataaggatt 14820  
 405745 acttttgtat gttccaacag tattatactt gttttggcat cagcattacc tctttcttta 14880  
 405747 tctttttcct ggttaattgt tttctgagtt ttttgggttt tattttttgc tgatgactat 14940  
 405749 tgattgacca tttgtatggt atttttatga aaaagaactg cactacagta caatttataa 15000  
 405751 caatgctgct gatatgacac acctttgaat ttgttaaaat taaaaacaac gtattccttt 15060  
 405753 gtagtgtgaa tatgagcaat ctattttata tgaacttttt tggttgtact taatcaacga 15120  
 405755 ggagaatntc tgcacttttc cattatacgg tttgaaggct gtaatacagt gtcattttat 15180  
 405757 ttttctgttt aaattgatgg aaaaatgatt gaatggtcaa ctctcttctt tgtgcccata 15240  
 405759 aagatcgatt cagactctgc tgaaaatata tagctctcac aagttcagca tcacctgctt 15300  
 405761 tgaaattagc cttagattgc caaccaatag atgagaattt tgaggaaaaa aattaaaaat 15360  
 405763 atgtaaaatt aataatttgc atgaacacag atgactacat tttccaaaac ttagtggact 15420  
 405765 ctatgtgatg tactaaatgt atacacctg taagcaatag ttatatttag gtggtagaac 15480  
 405767 atagcaaaaa tataaccgaa agttggccga ctgcacttgc tatggaataa gaccttttat 15540  
 405769 tctccctcag tctcgagata aatagccagc ctagagcaca acagggcatt gggtaacttgc 15600  
 405771 atcttaggta tttcttccca gtcacatcca ttttgtggaa gattaaccca accccttaca 15660  
 405773 ctacactgaa cactaaagaa taacatataa gcacacaaat tggtagacaga atttcaatta 15720  
 405775 cgtgaacgca tctcttttgc taggtcaaaa acaaagggca aagcagacat tttagtatac 15780  
 405777 agagtgattg gcaaataatt tcaagattta atatgagcaa ccattatatt gccctatcca 15840  
 405779 aaatatattc aagggccttc caagttgtag aagaacaatg atcttcccat aatcaaaagt 15900  
 405781 ggagagtcga aatgctgtgc cagttgctct ggtattcagg tttctctggg ttttacagaa 15960  
 405783 cgcattggacc ccattcacgt ttggtttgtt tatcttcaaa tttgagttga aacgagtgcg 16020  
 405785 atttatttaa gttgtatata aaaataaaag gatagcattt ttatacaaat atctttaaag 16080  
 405787 gcacaaaaga tttattcaca agttttggag ggctttttgt tctctgata gacatgactg 16140  
 405789 acttttagct gtcataatgt attaacctaa cagatgaaat atgttaaata tgtggttgct 16200  
 405791 ctttatccct ttgtacaagc attaaaaaaa ctgctgtttt ataagaagac tttttgttgt 16260  
 405793 actatgtgca tgcatactac ctatttctaa actttgccat attgaggcct ttataaacta 16320  
 405795 ttgatttatg taatactagt gcaattttgc ttgaacaatg ttatgcatat cataaacttt 16380  
 405797 ttcaggttct tgtttaagta cattttttta attgaacagt atttttcatt ttggttataa 16440

## RAW SEQUENCE LISTING

DATE: 10/17/2005

PATENT APPLICATION: US/10/551,874

TIME: 12:14:47

Input Set : N:\FANTU\10551874.raw.txt

Output Set: N:\CRF4\10172005\J551874.raw

405799 tatagtcatt ttgcctatgt ttctacaatg aagtgttaaa tactttataa aaaattgttg 16500  
E--> 405801 actgacttat ttaaataaaa ttctacatat aaaaaaaaaa aaaaaaaaaa aaaaaaa

16556 ← insert

FYI

Use of n and/or Xaa has been detected in the Sequence Listing.  
Review the Sequence Listing to insure a corresponding  
explanation is presented in the <220> to <223> fields of  
each sequence using n or Xaa.

Use of n and/or Xaa has been detected in the Sequence Listing.  
Review the Sequence Listing to insure a corresponding  
explanation is presented in the <220> to <223> fields of  
each sequence using n or Xaa.

see p. 20 (next page)

10/551,874 20

SEQUENCE LISTING

☐ <110> SIRS-Lab GmbH

☐ *use English*

☐ <120> Verfahren zur Erkennung akuter generalisierter entzündlicher Zustände (SIRS), Sepsis, sepsisähnlichen Zuständen und systemischen Infektionen

☐ <130> SL0505

☐ *These are prior data*

<1507> ☐ <140> PCT/EP2004/003419

<1517> ☐ <141> 2004-03-31

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/551,874

DATE: 10/17/2005

TIME: 12:14:48

Input Set : N:\FANTU\10551874.raw.txt

Output Set: N:\CRF4\10172005\J551874.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:120  
L:280 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:480  
M:341 Repeated in SeqNo=10  
L:453 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:420  
L:507 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:60  
L:683 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:180  
M:341 Repeated in SeqNo=24  
L:800 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:360  
L:1109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:360  
L:1484 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:120  
M:341 Repeated in SeqNo=42  
L:1516 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:180  
L:1711 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:300  
M:341 Repeated in SeqNo=50  
L:1846 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:420  
M:341 Repeated in SeqNo=55  
L:1914 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:180  
M:341 Repeated in SeqNo=57  
L:2069 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:180  
L:2157 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:420  
L:2193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67 after pos.:480  
L:2224 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68 after pos.:240  
M:341 Repeated in SeqNo=68  
L:2266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:480  
L:2292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70 after pos.:240  
L:2339 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:360  
L:2531 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:360  
L:2675 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:83 after pos.:420  
L:2722 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:0  
L:2754 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:86 after pos.:0  
L:3062 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:97 after pos.:480  
L:3080 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:98 after pos.:0  
L:3147 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99 after pos.:240  
M:341 Repeated in SeqNo=99  
L:3194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:100 after pos.:0  
M:341 Repeated in SeqNo=100  
L:3273 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:540  
M:341 Repeated in SeqNo=101  
L:3589 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:480  
M:341 Repeated in SeqNo=110  
L:3689 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:113 after pos.:480  
M:341 Repeated in SeqNo=113  
L:3778 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116 after pos.:540  
M:341 Repeated in SeqNo=116  
L:4177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:118 after pos.:0  
M:341 Repeated in SeqNo=118

**VERIFICATION SUMMARY**

**PATENT APPLICATION: US/10/551,874**

**DATE: 10/17/2005**

**TIME: 12:14:48**

**Input Set : N:\FANTU\10551874.raw.txt**

**Output Set: N:\CRF4\10172005\J551874.raw**

L:4273 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121 after pos.:420  
L:4347 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123 after pos.:600  
M:341 Repeated in SeqNo=123  
L:4575 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:132 after pos.:420  
L:260276 M:301 E: (44) No Sequence Data was Shown, SEQ ID:6691  
L:262782 M:301 E: (44) No Sequence Data was Shown, SEQ ID:6746  
L:267220 M:301 E: (44) No Sequence Data was Shown, SEQ ID:6841  
L:291623 M:301 E: (44) No Sequence Data was Shown, SEQ ID:7368  
L:291985 M:301 E: (44) No Sequence Data was Shown, SEQ ID:7378  
L:303036 M:301 E: (44) No Sequence Data was Shown, SEQ ID:7607  
L:341027 M:301 E: (44) No Sequence Data was Shown, SEQ ID:8489  
L:361142 M:301 E: (44) No Sequence Data was Shown, SEQ ID:9207  
L:362191 M:301 E: (44) No Sequence Data was Shown, SEQ ID:9241  
L:404719 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:14392 SEQ:10521  
L:405228 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:14896 SEQ:10522  
L:405801 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:16556 SEQ:10523